CMHC
Canada Mortgage and Housing Corporation

SCHL
Société canadienne d'hypothèques et de logement

Federal, Provincial and Agency Initiatives in Domestic Energy Conservation

Research Report

November 1983

Canada

87

Canada Mortgage and Housing Corporation, the Federal Government's housing agency, is responsible for administering the National Housing Act.

This legislation is designed to aid in the improvement of housing and living conditions in Canada. As a result, the Corporation has interests in all aspects of housing and urban growth and development.

Under Part V of this Act, the Government of Canada provides funds to CMHC to conduct research into the social, economic and technical aspects of housing and related fields, and to undertake the publishing and distribution of the results of this research. CMHC therefore has a statutory responsibility to make widely available, information which may be useful in the improvement of housing and living conditions.

This publication is one of the many items of information published by CMHC with the assistance of federal funds.

FEDERAL, PROVINCIAL AND AGENCY INITIATIVES IN DOMESTIC ENERGY CONSERVATION

INITIATIVES DES GOUVERNEMENTS FEDERAL, PROVINCIAUX ET DIVERS ORGANISMES CONSERVATION DE L'ENERGIE RESIDENTIELLE

Prepared for:

Research Division
Policy Development and Research Sector
Canada Mortgage and Housing Corporation

By: Ian D. Cross and Nicholas P. Waloff
Ottawa

CMHC Project Manager: Michael Pine

September, 1983

AVANT PROPOS

- Les renseignements contenus dans ce document ont été recueillis jusqu'au 1 mai 1983. Les textes ont été imprimés dans leur version originale, soit en anglais, soit en français

- Tout lecteur désirant des renseignement supplémentaires est prié de s'adresser directment à la personne clée de chaque programme.

- Bien que ce document est aussi précis et complet que possible, toutes additions, révisions ou mises à jour seront incorporées dans une troisième impression

  Prière de les faire parvenir à:

  Michael Pine
  Société canadienne d'hypothèques
  et de logement
  Chemin Montréal
  Ottawa, Ontario
  K1A OP7

- Ce document est destiné à l'usage des employés de la SCHL, mais un nombre restreint d'exemplaires peuvent être obtenus du:

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  sur l'habitation.
  Société canadienne d'hypothèque
  et de logement
  Chemin Montréal
  Ottawa, Ontario
  K1A OP7

FOREWORD

- The information presented in this listing has been assembled and updated to 1 May 1983. It appears in the language of origin and as received from the principal contacts.

- Readers requiring information on the current status of any program should apply directly to the Principal Contact named for that program.

- While every effort has been made to ensure that the listing is accurate and comprehensive, additions, corrections or updated information will be included in future editions if sent to:

  Michael Pine
  Canada Mortgage and Housing
  Corporation
  Montreal Road
  Ottawa, Ontario
  K1A OP7

- This document is intended for the internal use of CMHC. Copies are not available for wide public distribution, but a limited number may be obtained from:

  Canadian Housing Information
  Service.
  Canada Mortgage and Housing
  Corporation
  Montreal Road
  Ottawa, Ontario
  K1A OP7

HOUSING/ENERGY RELATED PROGRAMS
Programmes reliant l'habitation/l'énergie

Federal Govt. EMR-01	Key Number Numéro clé	page	Conservation Promo/Info. Éconergie promo/info	Conservation Codes/Stan. Éconergie/normes	Conservation New Housing Éconergie/logement nouveau	Conservation Retrofit Éconergie/amélioration thermique	Research/Demonstration Prog. Prog. R. & D.	Residential Rehab/Conversion Restauration rés./conv.	Emergency Repair Réparation d'urgence	Oil Substitution/Furnace Convert Chauffage bi-énergie	Renewable Energy Énergie renouvelable	Energy Audit/Efficiency Testing Vérification énerg./efficacité	Assisted/Insured Loans Aide/prêts ass.	Grants Subsidies Subventions
	01	1			X	X	X				X			X
	02	5			X	X	X				X			X
	03	7			X	X	X							
	04	9	X									X		
	05	10	X											X
	06	12				X								
	07	15			X		X							X
	08	19					X				X			X
	09	21					X			X				X
	10	23								X				X
	11	27												
	12	29					X							

HOUSING/ENERGY RELATED PROGRAMS
Programmes reliant l'habitation/l'énergie

Key Number clé	page	Conservation Promo/Info. Éconergie promo/info	Conservation Codes/Stan. Éconergie/normes	Conservation New Housing Éconergie/logement nouveau	Conservation Retrofit Éconergie/amélioration thermique	Research/Demonstration Prog. Prog. R. & D.	Residential Rehab/Conversion Restauration rés./conv.	Emergency Repair Réparation d'urgence	Oil Substitution/Furnace Convert Chauffage bi-énergie	Renewable Energy Énergie renouvelable	Energy Audit/Efficiency Testing Vérification énerg./efficacité	Assisted/Insured Loans Aide/prêts ass.	Grants Subsidies Subventions
NRC-01 CNR 02	30 32	X				X				X			
CMHC-01 SCHL 02 03	33 36 38	X		X	X	X	X	X				X	X
DPW-01 MTP	40									X			
ENV-01	42					X							X
AGENCIES AGENCES													
HUDAC-01 ACHDU	44	X		X	X								
CEA-01 ACE	46	X		X	X								
PROVINCES													
NFLD-01 T.-N. 02	48 50	X				X							X
03	51				X		X	X					X
04	52	X											
05	54	X									X		

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Key Number clé / Numéro	page	Conservation Promo/Info. Éconergie promo/info	Conservation Codes/Stan. Éconergie/normes	Conservation New Housing Éconergie/logement nouveau	Conservation Retrofit Éconergie/amélioration thermique	Research/Demonstration Prog. Prog. R. & D.	Residential Rehab/Conversion Restauration rés./conv.	Emergency Repair Réparation d'urgence	Oil Substitution/Furnace Convert Chauffage bi-énergie	Renewable Energy Énergie renouvelable	Energy Audit/Efficiency Testing Vérification énerg./éfficacité	Assisted/Insured Loans Aide/prêts ass.	Grants Subsidies Subventions
PEI-01 I.P.-E.	56	X									X		X
	57										X		
02	58										X		
03	59				X								
04	60												
NS-01 N.E.	60	X											
02	61	X				X				X			X
03	63	X											
04	65	X				X							
05	66										X		
06	67									X			X
07	68					X							X
08	70	X											
09	71	X											X
10	73				X		X	X				X	
11	74				X			X					X

HOUSING/ENERGY RELATED PROGRAMS
Programmes reliant l'habitation/l'énergie

Key Number / Numéro clé	page	Conservation Promo/Info. / Éconergie promo/info	Conservation Codes/Stan. / Éconergie/normes	Conservation New Housing / Éconergie/logement nouveau	Conservation Retrofit / Éconergie/amélioration thermique	Research/Demonstration Prog. / Prog. R. & D.	Residential Rehab/Conversion / Restauration rés./conv.	Emergency Repair / Réparation d'urgence	Oil Substitution/Furnace Convert / Chauffage bi-énergie	Renewable Energy / Énergie renouvelable	Energy Audit/Efficiency Testing / Vérification énerg./efficacité	Assisted/Insured Loans / Aide/prêts ass.	Grants Subsidies / Subventions
NS-12 N.E. 13	75 77	X			X		X					X	
NB-01 N.B. 02	78 80				X X		X		X			X X	
QUE-01	82 83 85				X		X		X		X	X	X X
ONT-01 01	87	X			X								
02	89	X			X								
03	91				X							X	
04	92					X							
05	93	X			X	X							
06	95					X							X
07	97					X							X
08	98					X				X			X

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ONT-09	103				X	X							
10	102				X	X							
11	103	X											
12	105	X									X		
13	106	X			X				X			X	
14	107	X							X				
MAN-01	108				X							X	
02	110				X								
03	111				X							X	
04	112				X		X	X				X	X
SASK-01	114				X							X	
02	116			X								X	
03	117						X	X					X
04	118						X	X				X	X
05	120	X											

HOUSING/ENERGY RELATED PROGRAMS
Programmes reliant l'habitation/l'énergie

Key Number / Numéro clé	page	ALTA-01	02	03	04	05	06	07	08	09	BC-01	C.-B. 02	03	04
		122	124	125	127	129	130	131	133	135	138	139	140	141
Conservation Promo/Info. / Éconergie promo/info		X	X		X					X		X	X	
Conservation Codes/Stan. / Éconergie/normes														
Conservation New Housing / Éconergie/logement nouveau						X								
Conservation Retrofit / Éconergie/amélioration thermique							X	X			X			
Research/Demonstration Prog. / Prog. R. & D.				X		X				X				
Residential Rehab/Conversion / Restauration rés./conv.							X	X	X					X
Emergency Repair / Réparation d'urgence														
Oil Substitution/Furnace Convert / Chauffage bi-énergie														
Renewable Energy / Énergie renouvelable														
Energy Audit/Efficiency Testing / Vérification énerg./éfficacité												X	X	
Assisted/Insured Loans / Aide/prêts ass.								X	X		X			X
Grants Subsidies / Subventions				X		X	X	X						

HOUSING/ENERGY RELATED PROGRAMS
Programmes reliant l'habitation/l'énergie

Key Number clé	page	YUKON-01 02	NWT-01 T.N.-O. 02 03	144	146	148
Conservation Promo/Info. Éconergie promo/info	142 143			X		X
Conservation Codes/Stan. Éconergie/normes						
Conservation New Housing Éconergie/logement nouveau				X		
Conservation Retrofit Éconergie/amélioration thermique		X		X	X	
Research/Demonstration Prog. Prog. R. & D.				X	X	
Residential Rehab/Conversion Restauration rés./conv.				X		
Emergency Repair Réparation d'urgence						
Oil Substitution/Furnace Convert Chauffage bi-énergie		X				
Renewable Energy Énergie renouvelable		X				
Energy Audit/Efficiency Testing Vérification énerg./efficacité						
Assisted/Insured Loans Aide/prêts ass.						
Grants Subsidies Subventions		X				

EMR - 01

PROGRAM TITLE: Conservation and Renewable Energy Demonstration Agreements (CREDA).

AGENCY RESPONSIBLE: Energy, Mines and Resources Canada.

GEOGRAPHICAL COVERAGE OF PROGRAM: Seven provinces and the two territories. PEI and Quebec have special program agreements. There is no agreement in effect in Alberta.

PROGRAM OBJECTIVES: The program has three main objectives:

- To develop and demonstrate promising technologies, techniques and systems which use renewable energy, conserve energy or make its use more efficient;
- To develop broad public awareness and acceptance of conservation and renewable energy technologies;
- To create employment in new or existing industries.

ELIGIBILITY: Proposals for demonstrations are accepted from industry, consultants, associations, colleges and universities, government departments and agencies, municipalities, voluntary and non-profit organizations and individuals.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: The activities of the program are focussed on two principle areas; a) funding and management of demonstration projects and b) transfer of information about demonstration experiences.

The program provides funding for demonstrations in all sections of the economy; residential, industrial, agricultural, commercial, transportation and governmental. New conservation technologies in each sector will be demonstrated. In renewables, the most promising applications in each technology will be demonstrated. Funding is available for both large and small projects. Project contractors will be required to document the demonstration and to work with the Provincial Offices in an information transfer program.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: The program is funded under cost-sharing agreements with the participating provinces and territories. Program delivery is carried by the

provinces, who process applications and administer the projects. Project contractors are also expected to share the risks of the demonstration. Federal funding is provided through EMR, except in the case of Nova Scotia where the Department of Regional Economic Expansion is responsible for funding.

AUTHORIZED PROGRAM FUNDING LEVELS:

Federal contributions of $84 million, Provincial and Territorial contributions of $67 million. These funds are divided into separate provincial and territorial elements.

PROGRAM COMMENCED: 1979 **PROGRAM ENDS:** 1984

COMMENTS:

Each project is individually co-sponsored by the federal and provincial governments. The decision to accept or reject any project will depend on how well it fulfills the following criteria:

- energy impact - short and/or long term;
- technical soundness;
- potential for cost-effectiveness and/or commercial viability;
- technical competence of the applicant to design, build, operate, manage, document and publicize the proposed demonstration;
- impact on public acceptance and incentive for adoption;
- private sector participation including cost-sharing;
- wide geographical and sectorial coverage;
- the quality of the information transfer plan; and
- potential contribution of the technology to Canadian energy, industrial trade, regional and environmental objectives.

PRINCIPAL CONTACT(S):

T. Ledwell
Coal and Alternate Energy Branch
Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
K1A 0E4
(613) 995-9447

FURTHER INFORMATION:

For details of application procedures and criteria or for information on projects that are already ongoing under the Program, please contact the appropriate Provincial/Territorial Office.

FURTHER INFORMATION:
(continued)

Newfoundland

Phil Graham, Manager
Conservation & Renewables
Dept. of Mines & Energy
Gov't of Newfoundland
96 Bonaventure Avenue
St. John's, Nfld.
A1C 5T7
(709) 737-2412

Nova Scotia

Carey Ryan, N.S. Dept. of Mines & Energy
1649 Hollis Street
P.O. Box 668
Halifax, Nova Scotia
B3J 2T3
(902) 424-7680

New Brunswick

John Williamson, Deputy Minister
Energy Secretariat
Gov't of N.B.
P.O. Box 6000
Fredericton, N.B.
E3B 5H1
(506) 453-3684

Ontario

Robert Hipwell, Co-ordinator Demonstrations
Energy Conservation & Renewable Energy
Ministry of Energy
56 Wellesley Street West
9th Floor
Toronto, Ontario
M7A 2B7
(416) 965-5172

Manitoba

Bill McDonald, Director
Conservation & Renewable Energy
Dept. of Energy & Mines
500 Portage, 2nd Floor
Winnipeg, Manitoba
R3C 0E9
(204) 944-2694

FURTHER INFORMATION:
(Continued)

Saskatchewan

Dan McFadyen
Demonstration Program Manager
Saskatchewan Energy & Mines
Toronto-Dominion Bank
1914 Hamilton Street
Regina, Saskatchewan
S4P 4V4
(306) 565-2523

British Columbia

Dr. James Hill, Director
Conservation & Renewable Energy
Ministry of Energy, Mines & Petroleum Resources
2006-1177 West Hastings St.
Vancouver, British Columbia
V6E 2L7
(604) 689-1831

Yukon

Mrs. Pat Fraser, Director
Program Implementation
Dept. of Tourism & Economic Development
Gov't of Yukon Territory
Whitehorse, Yukon
Y1A 2C6
(403) 667-5462

Northwest Territories

Ron Hawkins, Chief
Office of Energy Conservation
Dept. of Renewable Resources
Gov't of N.W.T.
Yellowknife, N.W.T.
X0A 1H0
(403) 873-7202

EMR - 02

PROGRAM TITLE:	ENERDEMO.
AGENCY RESPONSIBLE:	Energy, Mines and Resources Canada.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Quebec.
PROGRAM OBJECTIVES:	To develop and demonstrate promising technologies, techniques and systems which use renewable energy, conserve energy or make its use more efficient in Quebec.
ELIGIBILITY:	Proposals for demonstrations are welcomed from industry, consultants, associations, government departments, municipalities, voluntary and non-profit organizations and individuals in Quebec.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	This is a Federal program for the demonstration of energy conservation and renewable energy technologies in Quebec. The program provides funding for demonstrations in all sectors of the economy including residential.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	Other Federal government departments provide reviews of proposals in appropriate areas of technology.
AUTHORIZED PROGRAM FUNDING LEVELS:	$29 million/5 years.
PROGRAM COMMENCED:	1983 PROGRAM ENDS: 1988
CURRENT STATUS:	Started 13 June 1983
COMMENTS:	This program covers conservation and renewable energy technologies across the economy of Quebec. Domestic energy conservation is an important part. Persons wishing to submit proposals should contact:

André Laguë
ENERDEMO
Energy, Mines and Resources Canada
605 Dorchester Blvd. West
Montreal, Quebec
H3B 1P4
(514) 283-5117

PRINCIPAL CONTACT(S):

T. Ledwell
Coal and Alternative Energy Branch
Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
K1A 0E4
(613) 995-9447

EMR - 03

PROGRAM TITLE:	Conservation and Renewable Energy Demonstration Program in PEI.
AGENCY RESPONSIBLE:	Energy, Mines and Resources Canada.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Prince Edward Island.
PROGRAM OBJECTIVES:	To develop and demonstrate promising technologies, techniques and systems which use renewable energy, conserve energy or make its use more efficient in PEI.
ELIGIBILITY:	Proposals for demonstrations are welcomed from industry, consultants, associations, government departments, municipalities, voluntary and non-profit organizations and individuals in PEI.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	This is a Federal program for the demonstration of energy conservation and renewable energy technologies in PEI. The program provides funding for demonstrations in all sectors of the economy including residential.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	Other Federal government departments provide reviews of proposals in appropriate areas of technology.
AUTHORIZED PROGRAM FUNDING LEVELS:	$2 million in FY 1983-84
PROGRAM COMMENCED:	1981 PROGRAM ENDS: 1984
CURRENT STATUS:	On-going
COMMENTS:	This program covers conservation and renewable energy technologies across the economy of PEI. Domestic energy conservation is an important part. Persons wishing to submit proposals should contact: Norman Hall, Director Conservation & Renewable Energy P.O. Box 234 Summerside, P.E.I. C1N 4V8

PRINCIPAL CONTACT(S):

T. Ledwell
Coal and Alternative Energy Branch
Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
K1A 0E4
(613) 995-9447

EMR - 04

PROGRAM TITLE:	Heatline Energy Advisory Service.
AGENCY RESPONSIBLE:	Energy, Mines and Resources Canada.
GEOGRAPHICAL COVERAGE OF PROGRAM:	National.
PROGRAM OBJECTIVES:	To provide direct advice to Canadian householders on energy conservation, heating systems and renewable energy.
ELIGIBILITY:	The toll-free advisory service and publications are available to all Canadian householders interested in saving energy in their homes.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	A national information centre on all aspects of home energy conservation. The Heatline advisory service offers direct advice to householders who are interested in saving energy in their homes but who need help in deciding exactly what to do, what products and services to choose, and how to use them effectively. Technical information is provided on such topics as home insulation, home heating, energy-efficient home design, and renewable energy. EMR also produces and distributes a variety of publications on home energy conservation, renewable energy and other related topics.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	The program is operated by the Department of Energy, Mines and Resources Canada.
PROGRAM COMMENCED:	1977 PROGRAM ENDS: On-going
CURRENT STATUS:	Since the inception of the program, the Heatline Energy Advisory Service has responded to over 350 000 calls from the public.
COMMENTS:	Bilingual Heatline information officers handle up to 3 000 calls per week from across Canada on both technical and consumer aspects of home energy conservation.
PRINCIPAL CONTACT(S):	Heatline Energy Advisory Service Energy, Mines and Resources Canada 580 Booth Street Ottawa, Ontario K1A 0E4 Heatline Co-ordinator (613) 995-1118 Heatline toll-free number 1-800-267-9563

EMR - 05

PROGRAM TITLE:	EnerSave for Home Insulation Analysis.
AGENCY RESPONSIBLE:	Energy, Mines and Resources Canada.
GEOGRAPHICAL COVERAGE OF PROGRAM:	National.
PROGRAM OBJECTIVES:	To provide direct advice to Canadian householders on practical and economical ways to reduce energy consumption in their homes.
ELIGIBILITY:	The computerized analysis of insulation requirements is available to owners and tenants of detached, semi-detached and row houses up to three stories. Mobile homes or homes that depend on active or passive solar systems to supply most of their heat cannot be accommodated by the program.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	Householders are offered a free computerized analysis of their home insulation requirements. The householders simply complete a questionnaire on the basic characteristics of their home, the answers are analyzed by computer and the results returned by mail. The analysis pinpoints how much insulation to add in each area of the home and specifies other saving measures which are advisable. It includes estimates of the cost of materials and labour, the annual fuel savings, and the payback period based on current prices in their area.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	The program is operated by the Department of Energy, Mines and Resources Canada. Copies of the questionnaire are available from the Home Energy Programs Division of the Energy Conservation and Oil Substitution Branch, and from regional offices of the Department located in each province and territory.,
PROGRAM COMMENCED:	1977 PROGRAM ENDS: On-going
CURRENT STATUS:	Since the inception of the program, the EnerSave Home Insulation Analysis has shown more than 400 000 Canadians how to achieve savings by improving the energy efficiency of their homes.

PRINCIPAL CONTACT(S):

D. Lyons
Energy Conservation and Oil Substitution Branch
Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
P.O. Box 4510, Station "E"
Ottawa, Ontario
K1S 5K3
(613) 995-1118

EMR - 06

PROGRAM TITLE:	Canadian Home Insulation Program (CHIP).
AGENCY RESPONSIBLE:	Energy, Mines and Resources Canada, in cooperation with CMHC.
GEOGRAPHICAL COVERAGE OF PROGRAM:	All parts of Canada. Nova Scotia and PEI (which operated under a separate insulation grant program HIP - ended 31 December 1981) are now in CHIP.
PROGRAM OBJECTIVES:	The purpose of the Canadian Home Insulation Program is to provide funds for reducing the heat loss through the envelope of Canadian homes. Specifically, the objective of the program is to reduce residential energy consumption for heating purposes by 30% based on the thermal upgrading of 70% of Canadian homes built prior to 1977 by the year 1987.
ELIGIBILITY:	Single family homes, semi-detached or row house units, apartment buildings, and non-profit hostels are eligible. The house or apartment building must be used as a principal residence, be three stories or less and have been built before 1 January 1971 in most provinces or before 1 September 1977 in the Yukon, Northwest Territories or Newfoundland, or before 1 January 1977 in Nova Scotia and PEI.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	CHIP offers taxable grants to cover 60% of the cost of materials or the combined cost of materials and labour for a maximum of $500. This maximum grant applies to detached, semi-detached and row house units. The maximum varies for other types of units, totalling $285/unit for units in apartment buildings of three stories or less, containing six units or less; $215 for units in apartment buildings of three stories or less containing more than six units; and $100 for bedrooms in non-profit hostels. Two grants per unit can be obtained up to the maximum grant allowable for that unit. Since 1 November 1981, insulation contractors performing work under CHIP have been required to be listed in the Canadian General Standards Board Certification Listing Program for Residential Insulation Contractors.

Owners/occupants who do the insulation work themselves will not be able to claim the labour component under CHIP. They will be reimbursed only for material costs.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:

Energy, Mines and Resources is responsible for program policy and development, program evaluation and program funding. Under contract to EMR, CMHC processes applications, distributes cheques and provides inspection services.

Information about CHIP and application request cards are available from CHIP coordination offices located in each Province and Territory (see list of offices below).

AUTHORIZED PROGRAM FUNDING LEVELS:

$265 million for 1982-1983. $181.3 million for 1983-1984.

PROGRAM COMMENCED: September 1977 PROGRAM ENDS: 31 Dec. 1987

CURRENT STATUS:

From the introduction of the CHIP program to 27 May 1983, there have been 1 885 225 applications received and 1 820 359 grant cheques issued for a total expenditure of $690.1 million.

PRINCIPAL CONTACT(S):

Richard McKenzie, Administrator
Canadian Home Insulation Program
Conservation and Oil Substitution Branch
Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
K1A 0E4
(613) 995-1118

Jean Claude Cyr, Manager
Canadian Home Insulation Program
Canada Mortgage and Housing Corporation
Post Office Box 700
Postal Station St-Laurent
Montreal, Quebec
H4L 5A8
(514) 341-1511

Information and CHIP application forms are available from the following offices:

NEWFOUNDLAND

St. John's
Box 65
Atlantic Place
7th Floor
215 Water Street
St. John's Newfoundland
A1C 6C9
tel: 772-5353
or Zenith: 07792

Happy Valley/Goose Bay-Labrador
169 Hamilton River
Goose Bay, Labrador
A0P 1E0
tel: 896-2997
or Zenith: 07792

Corner Brook
Herald Building
Suite 104
4 Herald Avenue
Corner Brook, Newfoundland
A2H 4B4
tel: 639-1658
or Zenith: 07792

Windsor
136 Main Street
P.O. Box 1210
Windsor, Newfoundland
tel: 489-9022
or Zenith: 07792

NOVA SCOTIA AND PRINCE EDWARD ISLAND
7001 Mumford Road
Suite 217, Tower 1
Halifax, Nova Scotia
B3L 4N8
tel: 453-2421
elsewhere: toll free 1-800-565-7627

NEW BRUNSWICK
P.O. Box 158
Fredericton, New Brunswick
E3B 5R2
tel: 452-3756
elsewhere: toll free 1-800-442-9771

QUEBEC
P.O. Box 700
St. Laurent Postal Station
Montréal, Québec
H4L 5A8
tel: 341-7105
elsewhere: toll free 1-800-361-6860

ONTARIO
P.O. Box 1270, Station "T"
Toronto, Ontario
M6B 4A4
tel: 789-0581
elsewhere: toll free 1-800-268-1818
from 807 area, call (416) 789-0581 collect

MANITOBA
P.O. Box 10, Station "A"
Winnipeg, Manitoba
R3K 1Z9
tel: 949-5695
elsewhere: toll free 1-800-362-3346 or 3347

SASKATCHEWAN
P.O. Box 380
Regina, Saskatchewan
S4P 3A2
tel: 359-6164
elsewhere: toll free 1-800-667-3573

ALBERTA AND NORTHWEST TERRITORIES
P.O. Box 3030
Edmonton, Alberta
T5J 2G6
tel: 420-2459
Northwest Territories telephone
(403) 420-2459 collect
elsewhere: toll free 1-800-232-9492

BRITISH COLUMBIA AND YUKON
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EMR - 07

PROGRAM TITLE: Super Energy Efficient Housing Demontration (The R-2000 Program).

AGENCY RESPONSIBLE: Energy, Mines and Resource Canada.

GEOGRAPHICAL COVERAGE OF PROGRAM: National.

PROGRAM OBJECTIVES: Major objectives of the program are the following:

1. To transfer knowledge on the techniques of constructing and marketing Super Energy Efficient homes to as many builders as possible across Canada.
2. To provide incentives to encourage the design, construction and demonstration of a minimum of 300 homes across Canada.
3. To document and monitor the techniques, problems and energy consumption of houses constructed under the program in order to obtain pertinent data on the costs, savings and performance of SEE houses.
4. To identify and document barriers to the widespread adoption of Super Energy Efficient homes.

ELIGIBILITY: It is intended to have as many builders as possible participate in training and education programs in order that they may learn design, construction and marketing techniques for R-2000 homes. Builders will be selected to design, build, and demonstrate approximately 300 homes across Canada. These builders must be enrolled in Provincial Home Warranty Programs.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: The Housing and Urban Development Association of Canada (HUDAC) is responsible for program implementation. EMR provides operational funds to HUDAC for management, training and eduction, publicity and reporting activities. A contribution of $6 500 per house is available to assist builders selected to design, build and demonstrate the 300 homes across Canada. The name R-2000 has been selected as an identity and logo for marketing the program to the general public.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:

CMHC and NRC are involved on Advisory Boards and technical committees. The Housing and Urban Development Association of Canada (HUDAC) has been selected as the prime delivery agent for the program.

AUTHORIZED PROGRAM FUNDING LEVELS:

A total of $6 million has been approved for the program. Approximately $1.7 million is allocated for direct contributions to builders and $3.5 million for training and education, promotion, management and monitoring activities.

PROGRAM COMMENCED: 1 April 1981 PROGRAM ENDS: 31 March 1984

CURRENT STATUS:

A pilot phase of the program during which 30 houses were constructed is virtually complete. The main phase of the program is underway with builders selected to construct the remaining 270 homes. In most regions the program is oversubscribed and waiting lists have been established. Over 1 300 participants have attended over 30 training and education courses across Canada.

COMMENTS:

The SEE Program evolved from a concern that the technologies for designing and constructing energy efficient homes, although developed, have not been widely adopted by the building industy. To date, the program has proved highly successful within the limitations of its current funding level.

The program has emphasized training and education of builders, the use of energy performance standards verified by computer simulation, and a communications plan focused primarily on assisting builders in marketing the house.

Success can be attributed to the emphasis placed on the involvement of the private sector in the design, implementation and management of the program.

Although major informational, financial and technical problems still exist, the program structure and partnership with industry provides an excellent mechanism to resolve these problems.

PRINCIPAL CONTACT(S):

Charles Ficner
Energy Conservation and Oil Substitution Branch
Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
K1A 0E4
(613) 995-1118

EMR - 08

PROGRAM TITLE:	Solar Domestic Hot Water Demonstration Program.
AGENCY RESPONSIBLE:	Energy, Mines and Resources Canada.
GEOGRAPHICAL COVERAGE OF PROGRAM:	National.
PROGRAM OBJECTIVES:	To demonstrate the feasibility of solar domestic-water heating throughout Canada, to demonstrate improved system performance and reduction in the installed costs of solar DHW systems in the Canadian market, to provide a marketing opportunity for the Canadian Solar industry to directly sell and install DHW systems.
ELIGIBILITY:	The program deals exclusively with the suppliers of complete solar domestic hot water (DHW) systems. The main contractors may sub-contract to suppliers of solar-heating equipment, to owners of property (either building developers or homeowners), and to companies that will install and maintain the systems. An annual Request for Proposals is issued to interested companies.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	In 1983/84 a third phase of this program will take place. Under a formal agreement with a private company (solar manufacturer, installer, building contractor, etc.) the federal governament contributes up to 50% of the installed cost of a solar DHW system on a private residence. In future phases of the program this contribution is intended to reduce each year until 1988. The program in 1983/84 calls for the installation of over 2 000 systems across Canada. The homeowwner has a system installed and properly commissioned and also receives a three year warranty on the equipment. A monitoring project will be carried out on selected installations to verify system performance and eligibility.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	The program is run by Energy, Mines and Resources through contracts to project managers who administer projects of typically 25 or more solar heating systems.
AUTHORIZED PROGRAM FUNDING LEVELS:	$4 million in 1983/84

PROGRAM COMMENCED: 1981/1982 PROGRAM ENDS: 1988 (forecast)

CURRENT STATUS: Two phases of the program have already taken place with nearly 2 000 systems installed in various projects across Canada. 10 solar manufacturers and many other companies have participated in the program. The public has displayed very keen interest with most projects being quickly sold out. The third phase started in early September 1983. Further phases will begin early in each fiscal year.

PRINCIPAL CONTACT(S):

Jack Cole
Coal and Alternative Energy Branch
Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
K1A 0E4
(613) 995-9447

EMR - 09

PROGRAM TITLE: Special Projects Solar Demonstration Program.

AGENCY RESPONSIBLE: Energy, Mines and Resources Canada.

GEOGRAPHICAL COVERAGE OF PROGRAM: National.

PROGRAM OBJECTIVES: To provide assistance for special projects that can demonstrate the capacity to improve the cost/performance of active solar energy systems and/or to accelerate the acceptance of such systems by the Canadian public and commercial sector.

ELIGIBILITY: Companies and individuals who have unique ideas and concepts which meet the above objective yet do not fit within existing solar demonstrations.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: A contribution towards the cost of solar energy projects under this demonstration program will be made directly to Canadian individuals and companies who manage these projects.

a) Individual agreements with the recipients will be negotiated on a case by case basis and be limited by the funds available in each current year of the program. The federal contribution will be limited to 75% maximum of the total cost of the project. A minimum 25% level of private investment is required.

b) Proposals will be solicited through an open ended Request for Proposals. For acceptance, proposed projects must fall outside the scope of existing solar programs and meet a minimum score on the following criteria:

- adherence to expressed objective of program
- viability of project
- uniqueness of proposal
- potential cost/performance improvement
- potential commercial applications
- level of private investment proposed (minimum 25%)
- technical capability of proposer
- management capability of proposer
- demonstrated capacity to monitor and report on project
- financial status of proposer

- potential benefit of project to solar industry
- overall potential for success of project

c) Formal agreements will be made with the successful proposers to specify the following:

- nature and intent of project
- obligations and liabilities of the proponent
- requirements to meet prior to payments
- the payment system based on milestones
- monitoring and reporting requirements of project
- specific terms relating to the sharing of benefits with the government resulting from intellectual property resulting from the project.

d) Contribution arrangements will be authorized by the Director General, Coal and Alternative Energy Branch to a maximum of $1.0 million per contribution agreement. Contribution agreements over that amount will be authorized by the Assistant Deputy Minister.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:

None directly, but the program is meant to complement other solar demonstration programs.

AUTHORIZED PROGRAM FUNDING LEVELS:

$300 000 in fiscal 1983/1984.

PROGRAM COMMENCED:

1983

PROGRAM ENDS: Indefinite

CURRENT STATUS:

One of the anticipated projects for 1983/1984 is a limited demonstration of seasonal solar DHW systems.

PRINCIPAL CONTACT(S):

Jack Cole
Coal and Alternate Energy Branch
Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
K1A 0E4
(613) 995-9447

EMR - 10

PROGRAM TITLE:	Canada Oil Subsitution Program (COSP).
AGENCY RESPONSIBLE:	Energy, Mines and Resources Canada.
GEOGRAPHICAL COVERAGE OF PROGRAM:	The program applies throughout the country but the eligible alternatives vary from province to province. (See chart in "Comments" section).
PROGRAM OBJECTIVES:	To assist homeowners and businesses to reduce the use of oil by changing their heating systems from oil to more abundant alternative fuels or by conserving oil in areas without reasonable alternatives. The program is intended to play a key role in achieving the national goal of reducing oil consumption in the non-transportation sectors to ten percent of their total energy needs for 1990.
ELIGIBILITY:	COSP grants are available to homeowners, landlords and to tenants whose landlords have agreed that the tenants may undertake and pay for eligible measures. COSP grants may be obtained also by businesses and by churches, school boards, hospitals, houses for the aged and libraries. Governments are not eligible, except for the buildings listed above. Utility companies participating in the program are also not eligible. The program applies to conversion of residential space heating and water heating, and to space and water heating and process systems in the non-residential sectors. In Newfoundland, Prince Edward Island, and the Yukon and Northwest Territories, conservation measures are eligible. Properties such as cottages are not eligible unless they are used as a principal residence. Grants for heated swimming pools are available only for conversions to solar heating. The buildings must have been constructed before 28 October 1980 and heated by oil (or electricity in the North) to qualify for conversion assistance. Buildings heated by oil or electricity qualify for conversion or conservation assistance in Newfoundland, Prince Edward Island, and the Yukon and Northwest Territories. However, COSP may be provided in two stages at different times when supplementing and later eliminating oil heating or when renting and later buying non-oil equipment.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:

COSP provides taxable grants covering half the eligible costs of materials and labour for heating system conversions from oil or for conservation measures. For a single family residence, the maximum grant is $800. For centrally heated residential buildings with two or more self-contained dwelling units, the maximum grant varies from $1 000 to $5 500, depending on the total number of units in the building. In addition to supporting conversions to natural gax, propane, electricity, solid fuels and renewables, COSP will cover half the eligible costs of improving oil furnance efficiency reducing air leakage and upgrading insulation in Newfoundland, Prince Edward Island, and the Yukon and Northwest Territories. In these areas, COSP grants are available in addition to the $500 grants available under CHIP. Residents may therefore qualify for up to $1 300 in federal government assistance.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:

COSP is delivered by utility companies for natural gas and electricty, and by EMR regional offices for propane and renewables. Information and advice may be obtained from natural gas and electricty utilities, regional EMR offices, CMHC and the EnerSave Advisory Serivces.

AUTHORIZED PROGRAM FUNDING LEVELS:

$140 million is allocated for COSP in 1983/84.

PROGRAM COMMENCED: 28 October 1980 PROGRAM ENDS: 31 Dec. 1990

CURRENT STATUS:

Approximately $450 000 grants have been issued to date to a total of over $300 million.

COMMENTS:

COSP grants are available in addition to the $500 grants available under CHIP. Residents may therefore qualify for up to $1 300 in federal government assistance.

There are energy restrictions on alternatives in some provinces depending on the regional supply situation and preferences of the provincial governments. For example, in Prince Edward Island conversions to electric heating will not be eligible until such time as dependence on oil-fired electricity generation has been reduced. Conversions to electricity are ineligible in Saskatchewan at the request of the provincial government.

Conversions to renewables (wood, solar, wind, etc.) are eligible in oil-heated buildings. Natural gas is eligible wherever it is available. In addition, the following energy sources are eligible on a regional bases:

British Columbia

Electricity - Heat pumps to supplement oil heating are eligible throughout the province. Other conversions to electric heating are not eligible on Vancouver Island, but are eligible where natural gas is not available on the mainland.

Propane

Alberta

Propane - Propane where natural gas is not available.

Electricity - Heat pumps only. Other conversions to electricity are not eligible.

Saskatchewan

Propane

Manitoba

No restrictions

Ontario

No restrictions

Quebec

No restrictions, although consumers converting to electricity must undergo an energy analysis provided by the province.

New Brunswick

No restrictions

Nova Scotia

Electricity - Heat pumps installed after 1 April 1982 are eligible. No other conversions to electricity.

Prince Edward Island

Propane
Conservation measures (reducing air leakage, insulation, and heating system improvements) to homes heated by oil or electricity.

Newfoundland

Conservation measures as above.

Electricity - Conversions to electric heating are eligible in the communities of Labrador City, Sheeshatshet, Happy Valley - Goose Bay, and Northwest River.

Yukon and Northwest Territories

Conservation measures as above. Also conversions to propane or renewables in homes heated by electricity.

A further component of the Canada Oil Substitution Program is the Distribution System Expansion Program (DSEP); see following program description (EMR-11).

PRINCIPAL CONTACT(S):

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Energy Conservation and Oil Susbtitution Branch
Energy, Mines and Resources Canada
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EMR - 11

PROGRAM TITLE: Distribution System Expansion Program (DSEP).

AGENCY RESPONSIBLE: Energy, Mines and Resources Canada.

GEOGRAPHICAL COVERAGE OF PROGRAM: National.

PROGRAM OBJECTIVES: To encourage the expansion of distribution systems for natural gas to promote a reduction in oil use.

ELIGIBILITY: Natural gas distribution agents (investor-owned utilities, provincial crown corporations, co-operatives, municipal utility commissions and municipal governments) are eligible.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Two approaches are used to determine funding; 1) an annual competition, and 2) an incentive funding component, designed to encourage gas expansion activity in areas where some gas service already exists.

For the competition, gas distribution companies can submit projects which have total capital costs of at least $100 000 to Energy, Mines and Resources Canada to compete for funding on a national basis. These projects, which may involve multi-year construction, are reviewed by the department using a standard financial test and are selected for financial assistance based primarily on their cost-effectiveness in displacing oil.

Under the incentive funding component, a fixed level of funding is made available to each gas distribution company to undertake eligible extension projects. The gas company determines the required Government of Canada contribution using its own financial test and submits the proposed projects for review by Energy, Mines and Resources Canada. Projects must not exceed $250 000 in total capital costs and only those which are cost-effective in displacing oil may be approved.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: DSEP is funded from Government of Canada appropriations and from Market Development Incentive Payments (MDIP) made to the Government of Canada by the Government of the Province of Alberta. MDIP, established under the September 1981 Canada/Alberta Agreement on Gas Pricing and

Market Development Incentive Payments, provides funds for federally administered programs to encourage the expansion of gas markets for Alberta-produced gas in provinces east of Alberta. Funds for expansion programs in the province of British Columbia are provided by the Government of Canada.

AUTHORIZED PROGRAM FUNDING LEVELS: $34.4 million in funding was provided during fiscal 1982/1983.

PROGRAM COMMENCED: March 1982 PROGRAM ENDS: March 1987

CURRENT STATUS: Over 350 projects involving approximately $40 million in contributions from the Government of Canada have been approved. These projects brought gas service within reach of 35 000 new customers; they will displace almost 400 000 cubic metres of oil annually.

COMMENTS: Funds are only available to projects which are not financially viable for the utility to undertake by itself.

PRINCIPAL CONTACT(S):

Nancy Hughes Anthony
Director General
Natural Gas Branch
Energy, Mines and Resources Canada
580 Booth Street
Ottawa, Ontario
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(613) 995-2500

Gay Richardson
DSEP Administration Officer
580 Booth Street
19th Floor
Ottawa, Ontario
K1A 0E4

EMR - 12

PROGRAM TITLE:	Building Technology Support Program.
AGENCY RESPONSIBLE:	Energy, Mines and Resources Canada.
PROGRAM OBJECTIVES:	The aim of this program is to accelerate and extend the implementation of energy conservation opportunities in buildings through the preparation and provision of technical and economic information on a range of technologies applicable to buildings.
ELIGIBILITY:	There are six categories of buildings based on function and physical characteristics, as follows: low-rise residential, medium- and high-rise residential office, retail, warehouse and non-process industrial buildings, and restaurants.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	Responsibility within the program is divided up among a number of parties. All the research and transfer of technology is undertaken by contractors. In each category or sector there is a "lead agency" (usually a university or research intitute), which distributes funds to subcontractors and co-ordinates research activities. For each lead agency an advisory committee including members from the private sector as well as government provides advice and does some planning. Representatives from each lead agency and from Energy, Mines and Resources make up the Co-ordinating Committee which manages and administers the entire program.
AUTHORIZED PROGRAM FUNDING LEVELS:	1982/83 $3.5 million; 1983/84 $3.2 million.
PROGRAM COMMENCED:	1981 PROGRAM ENDS: Indefinite.
PRINCIPAL CONTACT(S):	Stan Zaborowski Energy Conservation and Oil Substitution Branch Energy, Mines and Resources Ottawa, Ontario K1A 0E4 (613) 995-1118

NRC - 01

PROGRAM TITLE:	Solar Energy Program.
AGENCY RESPONSIBLE:	National Research Council.
GEOGRAPHICAL COVERAGE OF PROGRAM:	National.
PROGRAM OBJECTIVES:	To develop scientific and technical capability in solar energy, to help achieve Canadian self-reliance in energy with minimal environmental, social or economic costs and maximum industrial or quality-of-life advantages.
ELIGIBILITY:	Any group or individual can present proposls in response to Requests for Proposals by NRC or as unsolidated proposls to Supply and Services Canada.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	Consists of R & D programs in active, passive and photovoltaic solar energy with a substantial part conducted through contracts to industrial and R & D organizations.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	Funded under the Federal Government's Energy Research and Development effort. The principal agencies involved in related activites include CMHC, EMR, Environment Canada, Agriculture Canada and Public Works Canada.
AUTHORIZED PROGRAM FUNDING LEVELS:	$11 000 000 for the funding year 1982-1983.
PROGRAM COMMENCED:	1976 PROGRAM ENDS: Indefinite
CURRENT STATUS:	Approximately 200 contracts currently in force, most of them for an 18 month period.
COMMENTS:	Most contracts are awarded following the evaluation of responses to request for proposals issued by SEP. Technical information is available through Project Digests of contracted work, through Proceeding of Seminars, and through Sub-Program Development Plans.

PRINCIPAL CONTACT(S): R.M. Aldwinckle, Manager
Solar Energy Program
Building R-92
National Reseach Council
Montreal Road
Ottawa, Ontario
K1A 0R6
(613) 993-2730

NRC - 02

PROGRAM TITLE:	Division of Building Research Information Program.
AGENCY RESPONSIBLE:	National Research Council.
GEOGRAPHICAL COVERAGE OF PROGRAM:	National.
PROGRAM OBJECTIVES:	Information dissemination.
ELIGIBILITY:	General.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	Provides information on matters relating to energy use in buildings, and on thermal properties and performance of materials and structures.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	None.
AUTHORIZED PROGRAM FUNDING LEVELS:	None.
PROGRAM COMMENCED:	PROGRAM ENDS: On-going
CURRENT STATUS:	This service is not a special program but a normal activity to disseminate the results of a wide range of research projects undertaken by the Division of Building Research.
PRINCIPAL CONTACT(S):	R.G. Turenne, Head, Technical Information Group Division of Building Research National Research Council Montreal Road Ottawa, Ontario K1A 0R6 (613) 993-2607

CMHC - 01

PROGRAM TITLE:	Residential Rehabilitation Assistance Program (RRAP).
AGENCY RESPONSIBLE:	Canada Mortgage and Housing Corporation.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Restricted to designated areas (both urban and rural).
PROGRAM OBJECTIVES:	To assist in the repair, rehabilitation or conversion in the case of non-profit corporations, of residential dwellings and to promote subsequent maintenance; to improve the accessibility of units for disabled occupants.
ELIGIBILITY:	Homeowners, landlords, non-profit corporations and co-operatives. In order to be eligible, the properties must be substandard in at least one of six basic areas; (structural) soundness, fire safety, electrical wiring, plumbing, heating, or accessibility to disabled occupants, and/or, in the case of non-profit corporations, for conversion of their properties. The nature and quality of the repair work should ensure a further useful life of the property of about 15 years.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	The Corporation makes preferred interest rate loans (current rate 12 5/8%), to homeowners, landlords on a residual basis, non-profit corporations and co-operatives. Also, as a result of 1979 amendments to the NHA, the Corporation insures and guarantees private lender loans to landlords. In addition, the Corporation may forgive repayment of a portion of the loan by the borrower. Homeowners are eligible for a maximum loan of $10 000, or $13 000 where the borrower is doing both repairs to improve the accessibility of a unit for a disabled person and other RRAP eligible repairs. Under current regulations, borrowers with adjusted family incomes of $13 000 or less are eligible for the maximum loan forgiveness of $5 000 ($6 500 where both accessibility and other RRAP eligible repairs are being done). Available forgiveness declines to zero as adjusted income rises to $23 000. On a residual basis, landlords

are eligible for a maximum loan of $10 000 per unit ($4 000 per hostel or dormitory bed) directly from CMHC or, as noted above, may secure private lender loans. In either case, the current regulations provide that 50% of the costs of repairs may be forgiven to a maximum of $3 500 per unit. In the case of rehabilitation loans financed by approved lenders, the forgiveness is provided through a loan made by the Corporation which is fully forgiven. The insured loan or home improvement loan must, however, be advanced before the forgiveable loan.

Forgiveness is earned by the borrower over five years. The unearned portion of the forgiveness becomes repayable if landlords default on the operating agreement in respect of the rental rates that may be charged or if the homeowner ceases to occupy the property.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:

In most areas the Corporation acts through agents, usually the municipality, in the delivery of the program. The approval process has been broken into stages from the preliminary application to the final inspection. Agents are paid a fee on a stage basis with the maximum fee being $400 for each urban homeowner loan. The agency fee for rental loans is based on $400 per unit for the first unit and $50 for each additional unit. Fees for rural and native and on-reserve loans are set at $400 per unit except in remote areas where, due to the travel costs associated with the loans, the agency fee is up to $850.

AUTHORIZED PROGRAM FUNDING LEVELS:

A total of $192 million in capital allocations for 1983 ($81.6 million for Urban RRAP, $102.0 million for Rural RRAP and $8.4 million for Non-Profit RRAP).

PROGRAM COMMENCED: 1974 PROGRAM ENDS:

CURRENT STATUS:

Approved Loans	No. of Units	$ Million
Urban RRAP		
1974 - 16 June 1983	116 903	435.286
	18 376	56.400

Approved Loans	No. of Units	$ Million
Rural RRAP		
1974 - 16 June 1983	104 315	451.813
1982	19 445	84.270
Non-Profit RRAP		
1982	2 580	9.703

Average Loan Amount 1982
- Urban RRAP - 3 069
- Rural RRAP - 4 334

COMMENTS:

Although insulation is not a qualifying item under the Program, particular attention is drawn to the eligibility of improvement to the insulation of a dwelling under the RRAP standards. Inspectors and others involved in counselling property owners on repairs and improvements which they may undertake, are encouraged to emphasize the importance of improved insulaion combined with an efficient heating plant.

PRINCIPAL CONTACT(S):

Keith A. Hornsby, Acting Director
Residential Improvement Division
CMHC, National Office
Montreal Road
Ottawa, Ontario
K1A 0P7
(613) 748-2693

CMHC - 02

PROGRAM TITLE:	Housing Technology Incentives Program (HTIP).
AGENCY RESPONSIBLE:	Canada Mortgage and Housing Corporation.
GEOGRAPHICAL COVERAGE OF PROGRAM:	National.
PROGRAM OBJECTIVES:	To encourage the development, demonstration and documentation of new ideas intended to improve the performance of housing and to make the experience gained available to industry and the public.
ELIGIBILITY:	Any Canadian company or person is eligible to apply. Organizations that are government sponsored or supported by public funds are not eligible.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	HTIP provides funding to a maximum of $15 000 for each proposal. Applicants who receive a contribution under the program must themselves be financially involved in the endeavor. They are required to test and demonstrate their product or project and provide the Corporation with a report on the performance of their proposal once the work is completed.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	Funded under Part V Section 37.1 of the National Housing Act.
AUTHORIZED PROGRAM FUNDING LEVELS:	$650 000 for 1983.
PROGRAM COMMENCED:	September 1980
CURRENT STATUS:	Since the inception of the Program over 600 applications have been submitted. There are approximately 100 projects now underway across the country.
COMMENTS:	In certain instances, the program will allow repeat demonstration of an idea in different regions of the country as a method of information transfer.

PRINCIPAL CONTACT(S):

C. Gwilym, Manager
Housing Technology Incentives Program
Policy Development and Research Sector
CMHC National Office
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CMHC - 03

PROGRAM TITLE:	Heating Costs and Minimum Qualifying Incomes.
AGENCY RESPONSIBLE:	Canada Mortgage and Housing Corporation.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Country-wide.
PROGRAM OBJECTIVES:	To provide an incentive to increasing the energy efficiency of the housing stock and reduce the risk of mortgage defaults due to heating costs claiming an excessive proportion of purchasers' incomes.
ELIGIBILITY:	This policy will affect all new and existing homeownership loans to be insured under Section 6 of the NHA (Mortgage Insurance). Purchasers of new housing must meet the new standards announced in the National Energy Program as of 1 July 1981.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	It consists of a change in the approach for computing minimum qualifying income for home purchasers. Lenders will be required to consider space heating costs as well as principal, interest, and taxes and one-half of condominium fees, excluding space heating costs, and to ensure that they do not exceed 32% of gross income. As a result purchasers of new housing will qualify at slightly lower incomes whereas purchasers of energy inefficient existing housing, especially in high energy cost areas, will need higher incomes to qualify. For new housing CMHC will accept that the lender use reasonable estimates by the builder of annual space heating costs. For existing housing, CMHC will except reasonable estimates of annual space heating costs by the seller or real estate agent.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	Lenders under Section 6 are required to implement this policy in disbursing loans. The standards for new housing are incorporated in the National Energy Program under EMR.
AUTHORIZED PROGRAM FUNDING LEVELS:	No funding requirement.

PROGRAM COMMENCED: 1 July 1981 PROGRAM END: Indefinite.

COMMENTS: As a further aid to the introduction of this measure, a manual of Heating Cost Tables has been prepared which summarizes costs by city and region for different fuels and ages of housing. Each local CMHC branch is prepared to furnish this information. These estimates are to be used entirely at the lender's discretion in place of estimates by the builder or seller.

PRINCIPAL CONTACT(S): E. Lemay, Assistant Director
Underwriting Directorate
CMHC, National Office
Montreal Road
Ottawa, Ontario
K1A 0P7
(613) 748-2573

DPW - 01

PROGRAM TITLE:	Purchase and Use of Solar Heating (PUSH).
AGENCY RESPONSIBLE:	Department of Public Works.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Canada-wide.
PROGRAM OBJECTIVES:	To foster development of a Canadian solar industry.
ELIGIBILITY:	Federal government buildings and those of federal Crown Corporation. Buildings owned in partnership with federal agencies have also become eligible. This includes housing in conjunction wich provincial housing authorities operated under Section 40 and Section 43 (Public Housing) of the NHA.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	PUSH covers 100 per cent of the costs of system design, installation, and materials. Training of operatos is also provided for. Individual departments and agencies are responsible for operation of the system once installation is complete.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	To date, PUSH has provided solar heating systems for 16 federal departments and 22 Crown Corporations. Through CMHC, federal-provincial assisted housing projects have received PUSH funding in Nova Scotia, Manitoba and British Columbia. Negotiations are currently underway to include projects in New Brunswick and PEI.
AUTHORIZED PROGRAM FUNDING LEVELS:	Original budget was $125 million over 5 years. Only $45 million will be spent by March 1984, as the program has achieved met its goal.
PROGRAM COMMENCED:	July 1978 PROGRAM ENDS: 3' March 1984
CURRENT STATUS:	No new commitments are being undertaken under the program. The $80 million unused from the original budget is being diverted to new federal solar initiatives.
COMMENTS:	Through CMHC, 8 housing projects have received $700 000 in program funding. An additional $440 000 for 9 more projects is in the planning

stages. In addition, hundreds of housing units owned by DND have had PUSH solar systems installed.

PRINCIPAL CONTACT(S):

Earl Hansen
Director, Solar Programs Office
Department of Public Works,
Ottawa, Ontario
(613) 998-9817

ENVIRONMENT CANADA - 01

PROGRAM TITLE:	Development and Demonstration of Resource and Energy Conservation Technology (DRECT).
AGENCY RESPONSIBLE:	Environment Canada.
GEOGRAPHICAL COVERAGE OF PROGRAM:	National
PROGRAM OBJECTIVES:	DRECT was established to contribute funds to private industries and organizations as well as provincial and municipal authorities workong with new ways to reduce waste and pollution, and save energy.
ELIGIBILITY:	Private industries and provincial governemtns.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	DRECT has been running since 1979 and is administered by Environment Canada and Energy, Mines and Resources. Under the program, up to 50 percent of the total estimated costs of an approved project will be covered. This includes costs for equipment, buildings, installation, engineering and consulting services. The developer keeps all the equipment, technical data, designs, or patents from the project. To obtain the federal funds, the proposer must undertake to make any patents and technology developed available, on terms approved by the Government and the proposer, to all interested parties in Canada. The successful applicant is required to submit a comprehensive final report. Proposals must be technically sound and show evidence of preliminary research and good organization.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	None.
AUTHORIZED PROGRAM FUNDING LEVELS:	1982/1983 $1.2 million, 1983/1984 $1.2 million.
PROGRAM COMMENCED:	1979 PROGRAM ENDS: On-going
COMMENTS:	Program has funded projects involving recycling waste for energy in housing (eg. fluidized bed furnace for burning waste coal in homes, located in Halifax).

PRINCIPAL CONTACT(S):

George H. Hill, P.Eng.
Chief, Industrial
Incentives Division
Technical Services Branch
Environmental Protection Service
Environment Canada
Ottawa, Ontario
K1A 1C8
(819) 997-3405

HUDAC - 01

PROGRAM TITLE: The Energy Saver Program

AGENCY RESPONSIBLE: Housing and Urban Development Association of Canada (HUDAC).

GEOGRAPHICAL COVERAGE OF PROGRAM: National

PROGRAM OBJECTIVES: To improve energy conservation in Canadian housing.

ELIGIBILITY: The program applies to residential buildings up to 600 m^2 (6 450 sq. ft.) and three storeys in height as described in the National Building Code of Canada.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: In order to merit the "Energy Saver" label, houses must incorporate four mandatory features:

- increased air-tightness,
- minimum insulation levels,
- maximum glazing areas,
- requirements for windows and doors.

In addition, there are two optional, but worthwhile, extras which should be featured in energy saver homes:

- upgraded heating systems,
- night set-back thermostats.

A layer promotion campaign was undertaken to make energy efficiency a regular sales theme and to ensure all sales representatives were familiar with energy efficiency features. This promotion includes a travelling exhibit, a technical requirements bulletin, and a savings and payback guide. A logo was developed for this promotion.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: The program was developed with the co-operation of CMHC and EMR. It is endorsed by CMHC, and the Mortgage Insurance Company of Canada.

AUTHORIZED PROGRAM FUNDING LEVELS: N/A.

PROGRAM COMMENCED: 1980 PROGRAM ENDS: May be phased out in 1984.

COMMENTS: The program was quite successful, but has largely been superceded by other programs which exceed the objectives of the Energy Saver Program (e.g. the

R-2000 Program (see EMR-07), and the "Double E" Program listed on the following page).

In order to encourage energy awareness among builders and buyers of new housing, HUDAC has also published the "Builders Guide to Energy Efficiency in New Housing" and, with Energy Ontario, "Buying Your Energy Efficient New Home."

PRINCIPAL CONTACT(S):

Henry ten Den
Acting Director of Research
Housing and Urban Development
Association of Canada
15 Toronto Street - 10th Floor
Toronto, Ontario
M5C 2E3
(416) 364-4135

CANADIAN ELECTRICAL ASSOCIATION - 01

PROGRAM TITLE:	Energy Efficient Home Program (or "Double E" Home Program).
AGENCY RESPONSIBLE:	Canadian Electrical Assocation, in co-operation with most electrical utilities.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Canada.
PROGRAM OBJECTIVES:	To motivate buyers and builders of new homes and owners of existing ones to build or modify their structures to meet high energy efficiency guidelines. The guidelines are intended to improve the resistance of houses to heat loss and encourage the use of efficient major energy-consuming equipment and appliances. The guidelines can be applied regardless of the type of heating fuel used in the home; oil, gas, electricity, coal, solar energy or wood. Ultimately, the Double E Program will minimize the waste of Canada's energy resources, reduce the need for utilities to invest in new generation, transmission and distribution facilities, decrease environmental problems and help keep homeowners' energy bills as low as possible.
ELIGIBILITY:	Any and all builders and homeowners who meet or exceed the program guidelines and who are in the service area of a participating utility.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	The program is based upon a set of national guidelines, for new or existing homes, designed to improve the resistance of the structure to heat loss and ensure the efficient operation of major energy consuming equipment and appliances. Each participating utility is responsible for administration of the program in its service area. There are differences in the application of the program across Canada and interested parties should call their utility for information on local assistance and support programs.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:

Supported by: Consumers' Association of Canada; Energy, Mines & Resources Canada and the electric utilities.

AUTHORIZED PROGRAM FUNDING LEVELS:

Not applicable.

PROGRAM COMMENCED:

September 1979 - PROGRAM ENDS: on-going

COMMENTS:

Builders participating in the program will have access to print materials which will link up their display homes or marketing programs plus the support of a national public information campaign. For more information, builders should contact any of the following electric utilities:

- B.C Hydro
- City of Saint John Power Commission
- Hydro-Québec
- Manitoba Hydro
- Maritime Electric
- New Brunswick Electric Power Commission
- Newfoundland Light & Power
- Nova Scotia Power
- Ontario Hydro
- Saskatchewan Power
- West Kootenay Power & Light

PRINCIPAL CONTACT(S):

George Portelance
Manager, Customer Services Division
Canadian Electrical Association
Suite 580, One Westmount Square
Montreal, Quebec H3Z 2P9
(514) 937-6181

NEWFOUNDLAND - 01

PROGRAM TITLE:	Energy Conservation Promotion and Training
AGENCY RESPONSIBLE:	Newfoundland Department of Mines and Energy, Energy Branch.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Newfoundland and Labrador
PROGRAM OBJECTIVES:	To educate and train the population on all aspects of residential energy conservation and to transfer accurate and applicable energy conservation methods.
ELIGIBILITY:	Aimed in first instance at groups of people with a vested interest in energy conservation in housing, such as new home builders, home renovation, contractors, instructors, and pupils in the Vocational Schools, Canada Works and NEED groups, burner mechanics, contractors.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	Responds to general and specific information requests, folders and conference proceedings are distributed, training is provided at seminars and courses, and presentations made to citizen groups.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	Educational institutions, such as Memorial University Extension Service, the College of Trades and Technology and the vocational schools, are approached to arrange courses for the general public and implement energy conservation details in the course material for their students.
AUTHORIZED PROGRAM FUNDING LEVELS:	N/A
PROGRAM COMMENCED:	April 1977 - PROGRAM ENDS: On-going
CURRENT STATUS:	Courses planned for 1983-1984 include training for new home builders and owners of existing housing. A course in efficient and safe heating with wood is also scheduled.

PRINCIPAL CONTACT(S):

Jo Heringa
Residential Energy Conservation
Newfoundland Department of Mines and Energy
Energy Branch
P.O. Box 4750
St. John's, Newfoundland
A1C 5T7
(709) 737-2777

NEWFOUNDLAND - 02

PROGRAM TITLE:	Low Energy New Home Building Program.
AGENCY RESPONSIBLE:	Newfoundland Department of Mines and Energy.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Province wide.
PROGRAM OBJECTIVES:	To demonstrate the cost effectiveness and ease of construction of low energy new homes.
ELIGIBILITY:	Deadline for applications was October, 1982. However, people considering building a low energy home may contact the Department of Mines and Energy for information. Project summaries are available on all of the houses constructed under the program. As well, houses are open to the public upon completion.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	Grants of up to $9 000 were awarded to 13 successful applicants to cover the extra cost of designing, building and demonstrating an energy efficient home.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	Energy, Mines and Resources Canada (through CREDA).
PROGRAM COMMENCED:	September, 1982. PROGRAM ENDS: March, 1984
CURRENT STATUS:	Applications no longer being received. A total of 7 houses have been constructed to date. They are located at Torbay, Mount Pearl, Flat Rock, Kippens, Paradise, Green's Habour and St. Phillip's. Another 8 houses under construction at Hogan's Pond, Aquaforte, Gander, Grand Falls, Mount Pearl and Deer Lake are due for completion by December, 1983.
PRINCIPAL CONTACT(S):	Juanita Keel-Ryan Energy Branch Newfoundland Department of Mines and Energy P.O. Box 4750 St. John's, Newfoundland A1C 5T7 (709) 737-2416

NEWFOUNDLAND - 03

PROGRAM TITLE:	RRAP Loan Assistance Program.
AGENCY RESPONSIBLE:	Department of Social Services.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Designated RRAP Areas.
PROGRAM OBJECTIVES:	To enable Social Assistance recipients to take full advantage of the federally funded RRAP Program.
ELIGIBILITY:	Social Assistance recipients owning a home within a designated RRAP area.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	Loan portion of RRAP assistance repaid by the Province.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	Canada Mortgage and Housing provides the funding for RRAP.
AUTHORIZED PROGRAM FUNDING LEVELS:	N/A.
PROGRAM COMMENCED:	1978.
PROGRAM ENDS:	Indefinite.
CURRENT STATUS:	Ongoing.
COMMENTS:	This program complements the Federal RRAP. Provincial loan assistance is only indirectly related to energy conservation promotion.
PRINCIPAL CONTACT(S):	T. Haire Director Social Assistance Department of Social Services Confederation Building St. John's, Newfoundland A1C 5T7 (709) 737-3243

NEWFOUNDLAND - 04

PROGRAM TITLE:	Public Information Program.
AGENCY RESPONSIBLE:	Newfoundland Light and Power Co. Ltd.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Covers 85 percent of the Island of Newfoundland.
PROGRAM OBJECTIVES:	To encourage energy conservation.
ELIGIBILITY:	Any customer may receive information on the wise and efficient use of electricity. Advisory service is available for electric space heating requirements for homes and for buildings up to 10 000 sq. ft.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	All media are used to advertise the wise and efficient use of electricity, the Energuide Program and the Energy Efficient Home Program of the Canadian Electrical Association. Free advisory service is offered to all customers who wish to install electric space heating in their homes by recommending standards of insulation, designing their space heating requirements and estimating their heating costs.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	No direct involvement of Government. However, Newfoundland Light & Power supports and cooperates with government policies and programs.
AUTHORIZED PROGRAM FUNDING LEVELS:	Funding is made available as required.
PROGRAM COMMENCED:	Evolved from program started in 1960's.
PROGRAM ENDS:	On-going.
CURRENT STATUS:	Free advisory services in many forms are provided to thousands of customers.

PRINCIPAL CONTACT(S):

A.P. Nugent, Technical Supervisor
Energy Use Services
W.J. Connors, Supervisor, Energy
Communications
Newfoundland Light & Power Co. Limited
Customer Services Department
P.O. Box 8910
St. John's, Newfoundland
A1B 3P6
(709) 737-5763

NEWFOUNDLAND - 05

PROGRAM TITLE:	Computerized comparison of insulation levels for existing or new homes with the standards of the Energy Efficient Home Program of the Canadian Electrical Association.
AGENCY RESPONSIBLE:	Newfoundland Light & Power Co. Limited.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Covers 85% of the Island of Newfoundland.
PROGRAM OBJECTIVES:	To eliminate energy waste and to inform our customers of the wisest method of eliminating that waste.
ELIGIBILITY:	All customers of Newfoundland Light and Power receive questionnaire. Intended primarily for residential users; small businesses may also be included.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	Customers receive a questionnaire in the form of a bill insert which can be completed and returned to the Company. In return the customer receives a computer printout showing what the estimated energy savings can be in the home. The customer can then decide if the investment required to make that energy savings is justified. An information kit will be also sent with the computer printout to assist the homeowner in improving energy efficiency.
AUTHORIZED PROGRAM FUNDING LEVELS:	N/A.
PROGRAM COMMENCED:	1982.
PROGRAM ENDS:	Indefinite.
CURRENT STATUS:	Bill inserts have been used on two occasions with a twelve month interval. The programme is now on-going with forms available in literature racks in all Company offices.

PRINCIPAL CONTACT(S):

A.P. Nugent, Technical Supervisor, Energy Use Services
W.J. Connors, Supervisor, Energy Communications
Newfoundland Light & Power Co. Limited
Customer Services Department
P.O. Box 8910
St. John's, Newfoundland
A1B 3P6
(709) 737-5763

PRINCE EDWARD ISLAND - 01

PROGRAM TITLE:	Consultant Grant Program.
AGENCY RESPONSIBLE:	PEI Department of Energy and Forestry.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Province-wide.
PROGRAM OBJECTIVES:	To provide detailed technical advice on energy conservation matters to businesses and private sector institutions.
ELIGIBILITY:	Must have had an Enersave (N.E.A.P.) energy audit which recommended a consultant study.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	As a follow-up to Enersave energy audit, consultant assistance is sometimes recommended where the situation warrants more in-depth investigation.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	Funding provided under a Canada/PEI Agreement.
AUTHORIZED PROGRAM FUNDING LEVELS:	Adequate to handle the needs of all eligible organizations.
PROGRAM COMMENCED:	1 June 1982.
PROGRAM ENDS:	31 March 1984.
CURRENT STATUS:	Ongoing.
PRINCIPAL CONTACT(S):	Copthorne Macdonald, Manager Consultant Grant Program Enersave for Industry and Commerce Box 937 Charlottetown, P.E.I. C1A 7M4 (902) 892-0166

PRINCE EDWARD ISLAND - 02

PROGRAM TITLE:	Thermography Program.
AGENCY RESPONSIBLE:	PEI Department of Energy and Forestry.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Province-wide.
PROGRAM OBJECTIVES:	To assist homeowners in determining insulation needs.
ELIGIBILITY:	Homeowners.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	The program offers a thermography service which is conducted by portable equipment using a walk-through method. The homeowner is required to pay a fee for the service.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	Equipment originally purchased through a PEI/ Canada Agreement with Energy, Mines and Resources. All program costs now handled by the province.
AUTHORIZED PROGRAM FUNDING LEVELS:	N/A.
PROGRAM COMMENCED:	1978.
PROGRAM ENDS:	To continue until demand is met.
CURRENT STATUS:	Ongoing.
PRINCIPAL CONTACT(S):	Laura Mair, Program Co-ordinator Patrick Mooney, Energy Officer Energy Branch PEI Department of Energy and Forestry P.O. Box 2000 Charlottetown, P.E.I. C1A 7N8 (902) 892-1094

PRINCE EDWARD ISLAND - 03

PROGRAM TITLE:	Furnace Efficiency Tests.
AGENCY RESPONSIBLE:	PEI Department of Energy and Forestry.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Province-wide.
PROGRAM OBJECTIVES:	To improve the operating efficiency of oil-fired heating systems.
ELIGIBILITY:	Homeowners.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	Kits are provided free of charge to homeowners to check the efficiency of their furnaces.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	Funding originally provided under EnerSave through a PEI Agreement with Energy, Mines and Resources Canada. Costs for replacement components, promotion etc. now carried by the province.
AUTHORIZED PROGRAM FUNDING LEVELS:	N/A.
PROGRAM COMMENCED:	1979.
PROGRAM ENDS:	Indefinite.
CURRENT STATUS:	Ongoing.
COMMENTS:	This test can also be performed by Enersave staff in conjunction with the thermography scan.
PRINCIPAL CONTACT(S):	Laura Mair, Program Co-ordinator Patrick Mooney, Energy Officer Energy Branch PEI Department of Energy and Forestry P.O. Box 2000 Charlottetown, P.E.I. C1A 7N8 (902) 892-1094

PRINCE EDWARD ISLAND - 04

PROGRAM TITLE:	Electric Water Heating Insulating Blanket Program.
AGENCY RESPONSIBLE:	Maritime Electric Company Limited.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Province-wide.
PROGRAM OBJECTIVES:	To reduce stand-by heat losses from electric water heater storage tanks thereby reducing energy consumption and costs.
ELIGIBILITY:	Owners of water heater storage tanks.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	Insulating water heater Kit (R10) available at cost ($17.17) from branch offices throughout the Province. Kit is exempt from Provincial Sales Tax. Eligible for grants under Off-Oil Program.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	None.
AUTHORIZED PROGRAM FUNDING LEVELS:	Program is self-supporting with kits being sold at cost.
PROGRAM COMMENCED:	Summer 1981.
PROGRAM ENDS:	Indefinite.
CURRENT STATUS:	Ongoing.
COMMENTS:	The program has been well received since its inception in 1981 and interest remains quite high.
PRINCIPAL CONTACT(S):	W.W. Brown Information and Public Affairs Maritime Electric Co. Ltd. P.O. Box 1328 Charlottetown, P.E.I. C1A 7N2 (902) 892-6531 Ext. 123

NOVA SCOTIA - 01

PROGRAM TITLE:	Public Information Program.
AGENCY RESPONSIBLE:	Nova Scotia Department of Mines and Energy.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Province-wide.
PROGRAM OBJECTIVES:	To increase public awareness and involvement in energy conservation.
ELIGIBILITY:	Aimed at all Nova Scotia residents.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	Provides a broad range of information, resource materials, and public presentations on energy management. An ENER-INFO display attending energy shows and special events, and a multi-media advertising campaign are two of the more visible aspects of this program.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	Cost shared with EMR.
AUTHORIZED PROGRAM FUNDING LEVELS:	$1.5 Million/6 years.
PROGRAM COMMENCED:	1 April 1978.
PROGRAM ENDS:	31 March 1984.
CURRENT STATUS:	Ongoing.
PRINCIPAL CONTACT(S):	Jim Gordon Senior Energy Officer Energy Management Division N.S. Dept. of Mines & Energy P.O. Box 668 Halifax, N.S. B3J 2T3 (902) 424-8619

NOVA SCOTIA - 02

PROGRAM TITLE:	Pilot Projects Program.
AGENCY RESPONSIBLE:	Nova Scotia Department of Mines and Energy.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Province-wide.
PROGRAM OBJECTIVES:	To encourage the industrial, commercial and residential sectors within Nova Scotia to implement energy conservation and renewable energy technologies which are not currently in widespread use but which are beyond research and development stage.
ELIGIBILITY:	All sectors of the economy. The project steering team will consider both solicited and unsolicited proposals.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	A program steering committee with representatives from EMR and the NS Dept. of Mines and Energy is responsible for the overall direction of the program. The program sponsors the Private Housing Demonstration Projects (grants provided to small demonstration projects to carry out various housing prototypes), Special Senior Citizen Demo projects (using active solar energy to heat water and passive greenhouse technology for winter heat gain), the Energy Efficient Housing Demonstration Project, etc. In addition, 12 energy auditors are being trained under the Program. This component provides for training, audits of 120 dwellings throughout the province, retrofitting and monitoring of 30 of these units, and dissemination of information to the public on the benefits of energy auditing prior to retrofitting.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	Eighty percent of the funding is provided by EMR under the Subsidiary Agreement on Energy Conservation.
AUTHORIZED PROGRAM FUNDING LEVELS:	$5 450 000.
PROGRAM COMMENCED:	1979.
PROGRAM ENDS:	31 March 1984.

CURRENT STATUS:

Project Commitments to Date:	No. of Units
Energy Efficient Housing Demo Project	8
Special Senior Citizens (Hot Water) Demo. Project	30
Bridgewater Apartment Building	12
Small Scale Energy Demo. Grants (1980)	Approx. 250 (mainly residential)
Senior Citizens Complex energy retrofit in Amherst	20
Groundwater source heat pump	1
Dalhousie married student housing - electrical load control	100+

COMMENTS:

The Small Scale Energy Demonstration Program (see Nova Scotia-11), offered annually since 1980, provides assistance for demonstrating alternative energy technologies and innovative energy conserving measures. To date 220 projects have received $800 000 in assistance.

PRINCIPAL CONTACT(S):

C. Ryan, Manager
Energy Engineering
N.S. Dept. of
Mines & Energy
P.O. Box 668
Halifax, N.S.
B3J 2T3
(902) 424-3203

Vaughn Munroe
Engineer
Pilot Project
Program
N.S. Dept. of
Mines & Energy
P.O. Box 668
Halifax, N.S.
B3J 2T3
(902) 424-8057

NOVA SCOTIA - 03

PROGRAM TITLE:	ENER-INFO.
AGENCY RESPONSIBLE:	Nova Scotia Department of Mines and Energy.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Province-wide.
PROGRAM OBJECTIVES:	To provide independent advice to the consumer on energy related issues.
ELIGIBILITY:	All Nova Scotia residents.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	Provides literature and advice on energy conservation. A toll-free telephone line is provided for residents outside Halifax - Dartmouth exchange.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	None.
AUTHORIZED PROGRAM FUNDING LEVELS:	N/A.
PROGRAM COMMENCED:	1978.
PROGRAM ENDS:	Indefinite.
CURRENT STATUS:	One toll-free line in operation daily from 8:30 a.m. to 4:30 p.m. managed continuously by a Department Energy Officer.
COMMENTS:	Heavily used by general public.
PRINCIPAL CONTACT(S):	Jim Gordon Senior Energy Officer Nova Scotia Department of Mines and Energy P.O. Box 668 Halifax, N.S. B3J 2T3 (902) 424-5727

PRINCIPAL CONTACT(S):

Energy Management Department
Customer Services Division
Nova Scotia Power Corporation
P.O. Box 910
Halifax, Nova Scotia
B3J 2W5
(902) 424-6386

FIELD ENERGY ADVISORS:

Kenneth Hussey
P.O. Box 130
Truro, N.S.
B2N 5B6
(902) 895-8712

T.R. Morris
P.O. Box 1268
Liverpool, N.S.
B0T 1K0
(902) 354-3470

Karl Oxner
Bridgetown, N.S.
B0S 1C0
(902) 665-4720

Barry S. Walker
P.O. Box 1070
Stellarton, N.S.
B0K 1S0
(902) 752-8361

Robert D. Watson
P.O. Box 610
Sydney, N.S.
B1P 6H8
(902) 564-5457

NOVA SCOTIA - 04

PROGRAM TITLE:	Energy Test and Information Centre (Enertic).
AGENCY RESPONSIBLE:	Nova Scotia Department of Mines and Energy.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Province-wide.
PROGRAM OBJECTIVES:	Provide public access to relevant technical information on domestic energy conservation.
ELIGIBILITY:	All Nova Scotia residents.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	Enertic will conduct literature searches and provide advice in response to technical requests from the public dealing with domestic energy conservation. Literature searches may include reference material, textbooks, computer data bases, depending on detail requested by public.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	Nova Scotia Research Foundation Corporation, Department of Energy Mines and Resources Canada.
AUTHORIZED PROGRAM FUNDING LEVELS:	$1 600 000.
PROGRAM COMMENCED:	1980.
PROGRAM ENDS:	31 March 1984.
CURRENT STATUS:	On-going.
COMMENTS:	Requests for information that go beyond that routinely handled by the Department of Mines and Energy are referred to Enertic.
PRINCIPAL CONTACT(S):	Gerald R. Archibald, P. Eng & Dr. Donald MacAulay, P. Eng N.S. Research Foundation Corporation P.O. Box 790 Dartmouth, Nova Scotia B2Y 3Z7

NOVA SCOTIA - 05

PROGRAM TITLE:	Residential Energy Audits.
AGENCY RESPONSIBLE:	Nova Scotia Department of Mines and Energy.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Province-wide.
PROGRAM OBJECTIVES:	Provide advice to homeowners on difficult conservation-related problems.
ELIGIBILITY:	Nova Scotia homeowners.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	Homeowners using the department's toll-free line to request advice on conservation-related issues may have encountered situations which can only be resolved through a visit by one of the department's energy officers. The program, at the discretion of the department, provides on-site inspection by qualified professionals who recommend remedial measures to the homeowner.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	None.
AUTHORIZED PROGRAM FUNDING LEVELS:	Uses internal resources of the Department.
PROGRAM COMMENCED:	1978.
PROGRAM ENDS:	Indefinite.
CURRENT STATUS:	Ongoing.
COMMENTS:	Number of audits performed depends on level of requests and staff availability.
PRINCIPAL CONTACT(S):	Jim Riddy Energy Conservation Officer N.S. Department of Mines and Energy P.O. Box 668 Halifax, Nova Scotia B3J 2T3 (902) 424-8057

NOVA SCOTIA - 06

PROGRAM TITLE:	Solar and Wind Sales Tax Rebate Program.
AGENCY RESPONSIBLE:	Nova Scotia Department of Mines and Energy.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Province-wide.
PROGRAM OBJECTIVES:	To provide an incentive for the use of solar and wind energy within Nova Scotia.
ELIGIBILITY:	Individuals and companies purchasing and installing solar or wind energy systems.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	Rebate of provincial sales tax on materials used in construction of solar or wind energy systems. Eligible systems include passive solar heating systems that incorporate thermal storage, all active solar space and hot water heating systems, solar pool heating systems, and wind systems.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	Program co-ordinated with Provincial Tax Commission.
AUTHORIZED PROGRAM FUNDING LEVELS:	Approximately $200 000 in tax revenue has been foregone to date.
PROGRAM COMMENCED:	1 April 1977.
PROGRAM ENDS:	Indefinite.
CURRENT STATUS:	On-going.
COMMENTS:	Activity under the program has increased significantly in the last year.
PRINCIPAL CONTACT(S):	Carey Ryan, P. Eng. Manager, Energy Engineering Energy Management Division N.S. Department of Mines and Energy P.O. Box 668 Halifax, Nova Scotia B3J 2T3 (902) 424-8057 Jim Riddy Energy Conservation Officer N.S. Department of Mines and Energy P.O. Box 668 Halifax, Nova Scotia B3J 2T3 (902) 424-6291

NOVA SCOTIA - 07

PROGRAM TITLE:	Small Scale Energy Demonstration Grants Program.
AGENCY RESPONSIBLE:	Nova Scotia Department of Mines and Energy.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Province-wide.
PROGRAM OBJECTIVES:	To assist individuals and groups with the cost of demonstrating small-scale alternate energy technologies and innovative energy conserving measures.
ELIGIBILITY:	Individuals proposing projects for their own homes, non-profit organizations, small businesses, local governments.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	See the previous description of the Pilot Projects Program. Although the criteria for the two programs are the same, several managerial points distinguish one from the other: 1) The Small Scale Program assistance is limited to a maximum of $10 000. 2) The program is a competition, run once each year. Not all those applying will receive grants. 3) A judging committee of local energy experts recommends projects for assistance.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	Energy, Mines and Resources Canada.
AUTHORIZED PROGRAM FUNDING LEVELS:	$310 000 (1980), $500 000 (1981), $400 000 (1982) $350 000 (1983). This program is cost-shared 80% federal/20% provincial.
PROGRAM COMMENCED:	1980.
PROGRAM ENDS:	31 March 1984. 27 June 1983 deadline for proposals.
COMMENTS:	A publication describing projects funded is being compiled.

PRINCIPAL CONTACT(S):

Chris Moir
Energy Engineer
N.S. Dept. of Mines
and Energy
P.O. Box 668
Halifax, N.S.
B3J 2T3
(902) 424-8057

Vaughn Munroe, P.Eng.
Pilot Projects Program
N.S. Dept. of Mines & Energy
P.O. Box 668
Halifax, N.S.
B3J 2T3
(902) 424-6291

NOVA SCOTIA - 08

PROGRAM TITLE:	Energy Efficient Homes Audio-Visual Show.
AGENCY RESPONSIBLE:	Nova Scotia Department of Mines and Energy.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Province-wide.
PROGRAM OBJECTIVES:	To illustrate and encourage greater use of current energy conservation techniques in new residential construction.
ELIGIBILITY:	
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	A 17-minute, 35 mm slide/cassette show in two versions (for buyers and for builders, respectively) illustrating the latest methods of constructing air-tight, well insulated homes for the average home buyer. Heating system options are discussed, as well as siting, ventilation, heat recovery and vapour barrier techniques.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	Cost-shared with Energy, Mines and Resources Canada and the Nova Scotia Housing Commission.
AUTHORIZED PROGRAM FUNDING LEVELS:	Ongoing.
PROGRAM COMMENCED:	1981.
PROGRAM ENDS:	Indefinite.
BUDGET:	N/A.
PRINCIPAL CONTACT(S):	Hal Dobbelsteyn Energy Officer Nova Scotia Department of Mines and Energy Energy Management Division P.O. Box 668 Halifax, Nova Scotia B3J 2T3 (902) 424-5727

NOVA SCOTIA - 09

PROGRAM TITLE:	Nova Scotia Energy Awards.
AGENCY RESPONSIBLE:	Nova Scotia Department of Mines and Energy.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Province-wide.
PROGRAM OBJECTIVES:	The Annual Energy Awards program provides public recognition to those who have made significant achievements in energy management over the past year, with the overall objective of encouraging all Nova Scotians to conserve energy.
ELIGIBILITY:	All energy users in Nova Scotia except the Nova Scotia Department of Mines and Energy, and Energy, Mines and Resources Canada.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	Energy Awards are presented in five categories based upon entries received: 1) Large Manufacturing/Processing Companies - Firms participating must have annual energy bills in excess of $100 000 excluding transportation costs. 2) Business, Commerce and non-government Institutions - This category is open to all private sector establishments not eligible for participating in Category 1, and hence encompasses most businesses. 3) Governments - This category is open to municipal, provincial or federal government units. 4) Organizations or Community Projects - Award is made to an organization or community group for a specific project or general contribution towards energy conservation in Nova Scotia during the previous year. 5) Individuals - The judges choose one individual who they consider has made the greatest contribution towards energy conservation in Nova Scotia during the previous year.
FUNDING:	$10 000/year.
PROGRAM COMMENCED:	1979.
PROGRAM ENDS:	Indefinite.

COMMENTS:

The Energy Awards are promoted and endorsed by provincial boards of trade and chambers of commerce. All data is considered confidential and used solely for judging purposes. The judging is carried out by a committee composed of representatives from Nova Scotia Department of Mines and Energy and the private sector.

PRINCIPAL CONTACT(S):

Hal Dobbelsteyn
Energy Officer
Nova Scotia Department of Mines and Energy
Energy Management Division
P.O. Box 668
Halifax, Nova Scotia
B3J 2T3
(902) 424-7680

NOVA SCOTIA - 10

PROGRAM TITLE:	Senior Citizens Assistance Program.
AGENCY RESPONSIBLE:	Nova Scotia Housing Commission.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Province-wide.
PROGRAM OBJECTIVES:	To provide assistance to senior citizens wishing to remain in their own homes but who cannot afford the repairs which would enable them to do so.
ELIGIBILITY:	Senior citizens (either spouse must be 65 or over) whose combined spouses income does not exceed $12 000 and who are not being assisted by another federal or provincial rehabilitation program. Applicants must own and occupy the home or have a life interest in the dwelling.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	Forgiveable loans are provided for actual cost of labour and materials to a maximum of $3 000. Loans are forgiven at the rate of $50 per month as long as the recipient continues to own and occupy the premises. Energy conservation measures are an important component of improvements assisted under the program.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	None.
AUTHORIZED PROGRAM FUNDING LEVELS:	$2 Million for 1983 (est.). (Additional $1.5 Million announced 23 June 1983).
PROGRAM COMMENCED:	1979.
PROGRAM ENDS:	Indefinite.
CURRENT STATUS:	On-going.
PRINCIPAL CONTACT(S):	Harold Newman N.S. Housing Commission P.O. Box 815 Dartmouth, N.S. B2Y 3Z3 (902) 424-6787

NOVA SCOTIA - 11

PROGRAM TITLE:	Housing Emergency Repair Program.
AGENCY RESPONSIBLE:	Nova Scotia Housing Commission.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Province-wide.
PROGRAM OBJECTIVES:	To provide assistance to those persons on low incomes who cannot afford to carry out the emergency repairs required to ensure the preservation of their home as a habitable unit.
ELIGIBILITY:	Low-income homeowner/occupants who cannot afford emergency repairs to their homes. Applicants must have severe health or safety problems to be eligible. The combined annual income of both spouses must not exceed $6 000.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	Grants up to $2 500 are available for labour and material.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	None.
AUTHORIZED PROGRAM FUNDING LEVELS:	$250 000 in 1983.
PROGRAM COMMENCED:	1977.
PROGRAM ENDS:	Indefinite.
CURRENT STATUS:	On-going.
COMMENTS:	Although energy conservation measures (eg. insulation) are funded, the Commission does not promote conservation as a prime goal under this program.
PRINCIPAL CONTACT(S):	Harold Newman N.S. Housing Commission P.O. Box 815 Dartmouth, N.S. B2Y 3Z3 (902) 424-6787

NOVA SCOTIA - 12

PROGRAM TITLE: Small Loans Assistance Program.

AGENCY RESPONSIBLE: Nova Scotia Housing Commission.

GEOGRAPHICAL COVERAGE OF PROGRAM: Province-wide.

PROGRAM OBJECTIVES: To provide assistance to moderate-income homeowners in need, to up-grade their dwellings.

ELIGIBILITY: Adjusted family income of $17 000 or less. Annual housing indebtedness must not exceed 27% of gross family income. Owner-occupied single family units. Only one loan shall be made to each permanent residence.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Provides low interest loans for repairs, alterations, or additions to single family homes. Loans are available up to a maximum of $5 000, at an interest rate of 8% for adjusted incomes of less than $12 000; 10% for adjusted incomes of $12 001 to $14 000; and the provincial borrowing rate for adjusted incomes of $14 001 to $17 000. The repayment term is based on the applicant's ability to pay but will not exceed five years. Loan security may consist of a first or second mortgage on the property. The total outstanding charges on the property must not exceed 75% of the appraised value of the property.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: None.

AUTHORIZED PROGRAM FUNDING LEVELS: $500 000 for the year 1983.

PROGRAM COMMENCED: 1979.

PROGRAM ENDS: Indefinite.

CURRENT STATUS: On-going.

	NUMBER OF APPROVED LOANS:	AMOUNT OF LOANS:
1979	111	$ 294 000.00
1980	199	590 000.00
1981	222	843 000.00
1982	45	222 000.00

PRINCIPAL CONTACT(S):

Manager, Community Programs
Nova Scotia Housing Commission
P.O. Box 815
Dartmouth, N.S.
B2Y 3Z3
(902) 424-6787

NOVA SCOTIA - 13

PROGRAM TITLE:	Public Information Program.
AGENCY RESPONSIBLE:	Nova Scotia Power Corporation.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Province-wide.
PROGRAM OBJECTIVES:	To increase public awareness of improvement opportunities and the latest energy efficiency standards; to encourage wise and efficient use of our energy resources.
ELIGIBILITY:	All Nova Scotia residents, regardless of their home heating system.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	Provides energy efficient designs, energy estimates and inspection for residential electric heating systems; information on efficiency standards for new home construction and improving insulation and weather tightness of existing homes; energy audits of residential business, industrial buildings. Also provides information on electric alternatives to displace fuel oil, administers the federal COSP grants for electric conversions, advises customers on energy-conscious selection, efficient operation and maintenance of home appliances, and provides references on renewable energy technology. Advice is provided by consultation with staff of Energy Advisors, or by mail, phone, visits to customers' premises, and by public exhibits and demonstrations.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	Federal and Provincial Governments. Canadian Electrical Association.
AUTHORIZED PROGRAM FUNDING LEVELS:	Internally funded.
PROGRAM COMMENCED:	Originated mid-1960's. ENDS: Indefinite.
CURRENT STATUS:	On-going.
PRINCIPAL CONTACT(S):	Energy Management Department Customer Services Division Nova Scotia Power Corporation P.O. Box 910 Halifax, N.S. B3J 2W5 (902) 424-6386

NEW BRUNSWICK - 01

PROGRAM TITLE:	Home Energy Conservation Loan Program.
AGENCY RESPONSIBLE:	New Brunswick Electric Power Corporation.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Province-wide.
PROGRAM OBJECTIVES:	To enable homeowners to upgrade the insulation levels in their homes.
ELIGIBILITY:	Loans are available to any New Brunswick electric utility customers who have acceptable credit and who are the registered owners of their principal residence. The loan plan applies to single family homes, duplexes and mobile homes. It also applies to apartment buildings and rooming houses which originally were single family dwellings and which are the principal residence of the owner.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	Low interest loans are available for the purchase and/or installation of insulation, storm windows and storm doors, attic ventilating equipment, vapour barriers, weather stripping and caulking as well as associated electrical materials used with ventilating equipment and framing for basement walls.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	The program is financed by the Province of New Brunswick through the Energy Secretariat.
AUTHORIZED PROGRAM FUNDING LEVELS:	$6 000 000 currently in active funds.
PROGRAM COMMENCED:	Oct. 1977.
PROGRAM ENDS:	December 1984. (May be extended).

CURRENT STATUS:

The current interest rate for the low interest loans is 7.5%

Loan Activity by Year		No. of Loans	Average Size of Loans
1977-78	$ 659 230	906	$727-62
1978-79	$2 265 142	2 832	$799-84
1979-80	$5 705 985	6 922	$824-32
1980-81	$7 166 295	8 793	$815
1981-82	$2 988 605	3 667	$815
1982-83	$2 740 030	3 362	$815

As of April 1983, approximately 23 000 New Brunswickers have received loans totalling about $16 million.

COMMENTS:

The Commission also provides loans to eligible homeowners to upgrade household wiring. Eligible work includes wiring installation for electric furnace conversions.

PRINCIPAL CONTACT(S):

Edward Archer, Director
Customer Service Program
A.J. O'Connor - General Manager
N.B. Electric Power Commission
527 King Street
Fredericton, N.B.
E3B 4X1
(506) 453-4249

NEW BRUNSWICK - 02

PROGRAM TITLE:	Home Improvement Program.
AGENCY RESPONSIBLE:	New Brunswick Housing Corporation.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Province-wide.
PROGRAM OBJECTIVES:	To assist homeowner in meeting basic housing needs.
ELIGIBILITY:	Homeowners with incomes of $15 000 or less provided that the PIT on their property does not exceed 27% of gross income. The houses must be at least five years old and owner occupied (except in the case of senior citizens or the disabled). Mobile homes must be CSA approved.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	Provides loans up to a maximum of $7 500 repayable over a period of 15 years. The interest rate is half that of market rate on mortgages. Senior citizens 60 years of age or older and the disabled receive the loan interest-free. The loans can usually cover major improvements, additions and mechanicals (heating, plumbing, electricity). It can also cover conversions for senior citizens and disabled homeowners. In the case of mobile homes, it can cover mechanicals, permanent foundation, electrical hook-up, well and septic tank or additions.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	This program supplements the CMHC - RRAP program and part of it is cost-shared by the N.B. Housing Corporation.
AUTHORIZED PROGRAM FUNDING LEVELS:	$354 802 (1982-83 provincial program) $2 486 822 (1982-83 joint program) $6 877 695 (1982-83 CMHC program)
PROGRAM COMMENCED:	Provincial program - 1972 Joint program - 1975 CMHC program - 1976
PROGRAM ENDS:	Indefinite in the case of the provincial program.

CURRENT STATUS:

a) Under provincial program:

	Approved loans	$
1979-80	200	9 806
1980-81	158	752 392
1981-82	130	619 111
1982-83	158	734 873

Average loan $4 651.

b) Under joint program:

	Approved loans	$
1979-80	1 114	2 913 926
1980-81	1 069	3 029 170
1981-82	922	2 754 892
1982-83	964	2 317 456

Average loan $2 404.

COMMENTS:

Clients undertaking heating modifications are being advised to consider the advantages of converting to a combination system.

PRINCIPAL CONTACT:

Ed Edmonds, Executive Director
Field Services
N.B. Housing Corporation
P.O. Box 611
Wilsey Road Industrial Park
Fredericton, New Brunswick
I3B 5B2
(502) 454-5563

QUÉBEC - 01

NOM DU PROGRAMME:	Programme d'Amélioration énergétique des habitations du Québec (Energain Québec).
AGENCE RESPONSABLE:	Hydro Québec.
REGION ADMISSIBLE:	Toute la province sauf les Îles-de-la-Madeleine.
OBJECTIFS DU PROGRAMME:	De visiter l'ensemble des résidences uni et multi-familiales au Québec sur une période de 8 ans.
CRITERES D'ELIGIBILITE:	Tous les propriétaires et locataires d'habitations construites avant le ler janvier 1976 seront graduellement admissible au programme. Actuellement seulement les habitations construites avant le ler janvier 1971 sont admissibles.
MODALITES DU PROGRAMME:	Forme d'assistance technique et financière. Fournit au consommateur un bilan énergétique sur l'habitation, un relevé sur l'enveloppe thermique, un test de rendement sur le système de chauffage par combustion ainsi qu'une analyse des habitudes de consommation d'énergie du consommateur. Identifie les travaux rentables pour le consommateur - coûts des travaux, des économies et période de remboursement. Offre un plan de financement au consommateur. Accorde des prêts de $3 000 à taux préférentiels pour les unités uni-familiales; prêts remboursable sur une période de 5 ans.
ENGAGEMENT D'AUTRE AGENCE(S):	Aucun.
FONDS AUTORISES:	Pas disponible.
MISE EN OEUVRE:	1 octobre 1981 FIN: 1989
ETAT ACTUEL:	Au 30 juin 1983 125 000 analyses energétiques réalisées
PERSONNE(S) CLEE(S):	André Huberdeau Chef de service Programmes commerciaux Hydro Québec 75 Ouest Dorchester Montréal, P.Q. H2Z 1A4 (514) 289-3848

QUÉBEC - 02

NOM DU PROGRAMME: Programme de subventions pour l'installation du chauffage bi-énergie dans les habitations

AGENCE RESPONSABLE: Hydro Québec.

REGION ADMISSIBLE: Toute la province.

OBJECTIFS DU PROGRAMME: Le programme vise à convertir partiellement à l'électricité quelque 78 000 systèmes de chauffage au mazout dans les maisons unifamiliales d'ici 1985.

CRITERES D'ELIGIBILITE: Tout propriétaire qui veut utiliser deux sources d'énergie dans leur système de chauffage. Tout en favorisant l'électricité comme source principale de chaleur.

Utilisation d'un système de chauffage principal alimenté par une source d'énergie autre que l'électricité pouvant fonctionner d'un façon satisfaisante pendant au moins 5 ans ou se porter acquéreur d'une maison neuve dans laquelle on trouve un système de chauffage bi-énergie.

Un système bi-énergie ne peut être constitué d'une installation électrique combinée au gaz naturel. L'installation de ces systèmes doit être terminée avant le ler janvier 1985.

- le fonctionnement du système bi-énergie doit être commandé par un mécanisme de commutation scellé et automatique, relié à un thermomètre extérieur
- l'installation doit être conçue de façon qu'Hydro-Québec puisse éventuellement le télécommander advenant une demande trop forte d'électricité

MODALITES DU PROGRAMME: Une aide financière sous forme de subvention non imposable pour le coût des modifications requises jusqu'à concurence de 650$ par maison (type unifamilial). Après le 31 décembre 1983, le montant de la subvention sera le même pour tous et ce chiffrera à 500$.

La conversion en bi-énergie par l'addition d'un système de chauffage électrique dont les plus connus sont:

- éléments électriques installés dans la chambre d'air chaud du système;

- générateur de chaleur à air pulsé électrique;
- générateur de chaleur à eau chaude électrique (hydrolique);
- chauffe-conduits;
- pompe à chaleur;
- plinthes chauffantes.

ENGAGEMENT D'AUTRE AGENCE(S):

Cette nouvelle subention s'ajoute à celle du Programme canadien de remplacement du pétrole (PCRP). Les deux subventions devraient couvrir la presque totalité des coûts dans la majorité des cas.

FONDS AUTORISES:

Pas disponible.

MISE EN OEUVRE:

octobre 1982

FIN: la demande de subvention doit parvenir à Hydro-Québec au plus tard le ler avril 1985.

COMMENTAIRES:

Hydro-Québec se réserve le droit de n'accepter que les 100 000 premières demandes de subvention.

PERSONNE(S) CLEE(S):

André Huberdeau
Chef de service
Programmes commerciaux
Hydro Québec
75 Ouest Dorchester
Montréal, Québec
H2Z 1A4
(514) 289-3848

QUÉBEC - 03

NOM DU PROGRAMME:	Loginove.
AGENCE RESPONSABLE:	Société d'habitation du Québec.
REGION ADMISSIBLE:	Les zones désignées aux fins du PAREL urbain.
OBJECTIFS DU PROGRAMME:	De restaurer progressivement à travers tout le Québec, les unités d'habitations détériorés pour les rendre à un niveau acceptable d'habitabilité.
CRITERES D'ELIGIBILITE:	Une personne physique, une personne morale ou une coopérative propriétaire d'un immeuble peuvent bénéficier de LOGINOVE. L'immeuble peut compter un ou plusieurs logements offerts en location ou occupés par leur propriétaire. L'immeuble devra nécessiter, pour corriger les défectuosités admissibles, des travaux de restauration d'un coût moyen d'au moins $4,000,00 par logement.
MODALITES DU PROGRAMME:	Pour obtenir une subvention le propriétaire doit corriger toutes les défectuosités relevées sur son immeuble. Parmi les défectuosités reconnues nous retruvons celles reliées à l'électricité, au chauffage et à l'isolation. Le montant maximum des travaux reconnus pour fins de subventions est de $15,000,00 en moyenne par logement. Le taux de subvention applicable aux travaux admissibles peut atteindre 75% dans le cas d'un logement occupé par le propriétaire de décroît selon le revenu familial de celui-ci; dans le cas d'un logement loué, le taux peut atteindre 90%, il décroît à mesure que le loyer net du logement augmente et varie selon le nombre de pièces.
ENGAGEMENT D'AUTRE AGENCE(S):	Aucun.
FONDS AUTORISES:	$48 million pour l'année 1983-84 (pour subventionner environ 9,000 logements).
MISE EN OEUVRE:	1 mai 1981 FIN: 1991
ETAT ACTUEL:	En date du 31 mars 1983, la Société d'habitation du Québec avait autorisé la restauration de 2555 logements.
COMMENTAIRES:	La partie non-remboursable obtenue sous le PAREL est soustraite de la subvention maximale disponible.

PERSONNE(S) CLEE(S):

René Bergeron, Directeur
Loginove.
Société d'habitation du Québec
1039 de la Chevralière
27e étage - Edifice "G"
Québec, Québec
G1R 4Z3
(418) 643-6159

ONTARIO - 01

PROGRAM TITLE:	Energy Conserving retrofits in assisted rental housing
AGENCY RESPONSIBLE:	Ontario Housing Corporation.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Province-wide.
PROGRAM OBJECTIVES:	This is part of an on-going program to reduce energy consumption in the Corporation's portfolio of 84 000 dwelling units.
ELIGIBILITY:	Limited to Public Housing.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	Emphasis is on apartment buildings, and retrofits are selected to meet two criteria - payback under 5 years, and simple enough in concept and execution to be implemented in a very decentralized organization. Guidelines outline the retrofit, explain how to determine if a building is suitable for the retrofit, outline budget cost calculation, and energy savings calculation. For some retrofits, a Standard Specification is prepared from which contract prices can be obtained after adding certain 'site specific' details.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	Some R & D assistance is provided under the Housing Energy Management Program agreement with the Ontario Ministry of Energy. Capital costs carried in annual operating budgets, and shared by Federal and Ontario Governments under NHA Sections 40 and 44(1)(a).
AUTHORIZED PROGRAM FUNDING LEVELS:	Original authorization $10 000 000. $5 M spent by end of 1982; 1983 budget - $1.4 M.
PROGRAM COMMENCED:	January 1980
PROGRAM ENDS:	Indefinite.

CURRENT STATUS:

To date, 7 retrofits are underway:

- Insulation of Attics (houses and low-rise apartments);
- Garage ramp heater controls;
- Corridor air supply and suite exhaust scheduling;
- Fluorescent lighting for corridors;
- Water saving devices;
- Weatherstripping apartment buildings;
- Control of car block heater power receptacles.

Five of the retrofits will be completed by 1983. The weatherstrip program is not yet underway. Other retrofits are being studied to determine feasibility and cost effectiveness (insulating frame walls, insulating basements, adding suite control valves, night set-back of boiler water temperature).

COMMENTS:

Only OHC properties are eligible for funding, but most of the engineering work is suitable for use by private apartment/condomium owners; and is freely available.

PRINCIPAL CONTACT(S):

Harry Sproule
Manager
Energy Systems
Ontario Housing
Corporation
101 Bloor St. W.
13th Floor
Toronto, Ont.
M5S 1P8
(416) 965-0337

D.J. Beesley
General Manager
Ontario Housing
Corporation
101 Bloor St. W.
14th Floor
Toronto, Ontario
M5S 1P8

ONTARIO - 02

PROGRAM TITLE: Energy Consumption Reporting System (ECRS)

AGENCY RESPONSIBLE: Ontario Housing Corporation.

GEOGRAPHICAL COVERAGE OF PROGRAM: Province-wide.

PROGRAM OBJECTIVES: Designed to record and analyze energy consumption using actual energy consumption obtained from utility bills. Property Managers are thus informed as to which buildings are energy wasters. Also the program monitors the overall progress of the E/C program.

ELIGIBILITY: Restricted to OHC properties.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: ECRS covers 263 high-rise apartment buildings (defined as those with elevators) and 458 low-rise apartment buildings. Program inputs are (1) electricity, gas, and water utility bills (2) degree days for every location on daily basis (3) building data profile.

An audit report summarizes the energy used in each building, presents some analysis of how the energy was used, and ranks the performance of the building compared to others. Since space heating accounts for about half of all energy used in buildings, the audit report separates this from other uses of energy. Consumption, cost, energy index, and ranking are presented for 'heating' and 'non-heating' loads.

The performance of each building relative to others is shown by a group number which ranks it against other buildings in deciles from 1 to 10 (best to worst).

A field Report is produced for use by Property Managers and Maintenance Supervisors to review energy consumption in each building. Shown are the space heating and non-heating indexes with the % change from the same period for the previous year indicated in brackets. A decrease in both indexes is a clear indication that energy usage has been reduced.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	None.
AUTHORIZED PROGRAM FUNDING LEVELS:	N/A
PROGRAM COMMENCED:	1978
PROGRAM ENDS:	On-going.
CURRENT STATUS:	5-year data on high-rise apartments. 4-year data on low-rise apartments.
COMMENTS:	Proposing to use ECRS data to set an "energy budget" for each building.
PRINCIPAL CONTACT(S):	Harry Sproule Manager Energy Systems Ontario Housing Corporation 101 Bloor St. W. 13th Floor Toronto, Ont. M5S 1P8 (416) 965-0337 D.J. Beesley General Manager Ontario Housing Corporation 101 Bloor St. W. 14th Floor Toronto, Ontario M5S 1P8

ONTARIO - 03

PROGRAM TITLE: Ontario Home Renewal Program (OHRP).

AGENCY RESPONSIBLE: Ministry of Municipal Affairs and Housing.

GEOGRAPHICAL COVERAGE OF PROGRAM: Province-wide.

PROGRAM OBJECTIVES: To upgrade below standard housing for low-moderate income homeowners.

ELIGIBILITY: Any municipality may apply for OHRP funds through council resolution providing it is willing to adopt standards for maintenance.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: The Ministry of Municipal Affairs and Housing provides capital grants to municipalities to administer directly as loans of up to $7 500 to owner-occupants whose adjusted family income is no greater than $15 500. The rate of interest charged on loans is determined by the annual family income.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: Physically handicapped residents may qualify for loans up to $9 500. Program is delivered by municipalities.

PROGRAM COMMENCED: 1974

PROGRAM ENDS: Since October 1982, municipalities have not received any further provincial funding for OHRP. Availability of funds for new activity is dependent on the situation in each locality.

CURRENT STATUS:

Loans	Number of Units	$ Millions
1983	35 000	156.3

Average loan - $5 000.

PRINCIPAL CONTACT:

C.B. Carr
Manager, Program Administration
Housing Programs Division
101 Bloor Street West, 12th Floor
Toronto, Ontario
M5S 1P8
(416) 965-9649

ONTARIO - 04

PROGRAM TITLE:	Evaluation of Radon and Air Quality Control Techniques
AGENCY RESPONSIBLE:	Ontario Ministry of Municipal Affairs and Housing.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Elliot Lake, Ontario.
PROGRAM OBJECTIVES:	To evaluate the effectiveness of recommended techniques for controlling interior levels of radon daughters (isotopes), moisture and other interior air contaminants consistent with energy conserving objectives.
ELIGIBILITY:	4 demonstration houses in Elliot Lake.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	Appraisal of techniques to control interior levels of radon daughters emanating from the soil and from building materials in tightly built new construction indicates that it is integral to the issue of interior air quality. Since air circulation and change are fundamental to the solution, the evaluation program will seek to find a balance between energy conserving imperatives and acceptable interior air quality.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	Ontario Ministry of Energy.
AUTHORIZED PROGRAM FUNDING LEVELS:	$27,500 (1983/84 F.Y.)
PROGRAM COMMENCED:	Phase 1 of a 3 phase program was initiated in March, 1981.
CURRENT STATUS:	Phase 1 and 2 completed. Final phase to be completed by January 1984.
PRINCIPAL CONTACT(S):	Donald D. Beveridge Corporate Planning and Evaluation Branch Ministry of Municipal Affairs and Housing Queen's Park Toronto, Ontario M7A 2K5 (416) 965-7867

ONTARIO - 05

PROGRAM TITLE:	"Weatherize" Project
AGENCY RESPONSIBLE:	Ministry of Municipal Affairs and Housing.
GEOGRAPHICAL COVERAGE OF PROGRAM:	4 test communities: Ottawa, Sault Ste. Marie, Cambridge, Peterborough.
PROGRAM OBJECTIVES:	1. Convince homeowners to "Seal their house first". 2. Develop better methodology and cost benefit packages for Ontario house types. 3. Better understanding of air leakage components and their contribution to total heat loss.
ELIGIBILITY:	Selected homeowners for tests: All homeowners for results.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	1. Test 60 houses for air tightness. 2. Weatherize by caulking and weatherstripping. 3. Circulate results in community over one year period by pamphlets, posters, advertising, workshops for contractors, workshops for opinion leaders, aggressive pursuit of media opportunities. 4. Air quality analysis follow up in certain houses.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	Local hydro utilities and local municipalities.
AUTHORIZED PROGRAM FUNDING LEVELS:	$150 000 year 1; $50 000 to complete and publish results.
PROGRAM COMMENCED:	September 1981.
PROGRAM ENDS:	November 1983.
CURRENT STATUS:	Nearing completion.
COMMENTS:	• This was a once only project, not an ongoing program. • Detailed reports will be available from November 1983.

PRINCIPAL CONTACT(S):

Andrew Zdanowicz (Technical Results)
Research and Development
Housing Renovation and Energy Conservation Unit
8th Floor
101 Bloor Street West
Toronto, Ontario
M5S 1P8

OR

David Peters (General Planning)
Housing Renovation and Energy Conservation Unit
14th Floor
101 Bloor Street West
Toronto, Ontario
M5S 1P8
(416) 965-4073

ONTARIO - 06

PROGRAM TITLE:	Community Planning Study Grants.
AGENCY RESPONSIBLE:	Ontario Ministry of Municipal Affairs and Housing.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Province-wide.
PROGRAM OBJECTIVES:	To encourage municipalities to develop and review community planning programs.
ELIGIBILITY:	Any municipality with a population of 15 000 or less.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	Grants are available to pay a percentage of study costs for any community planning study. Studies which will incorporate energy conservation into planning programs, policies or procedures are eligible for 75% subsidy.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	None.
AUTHORIZED PROGRAM FUNDING LEVELS:	$2.2 million in 1983/84.
PROGRAM COMMENCED:	1974
CURRENT STATUS:	In excess of $9 million has been given to over 550 municipalities since 1974.
COMMENTS:	Program is on-going. Under revisions to the program to be introduced on 1 October 1983, municipalities up to 65 000 pop. will become eligible and a maximum subsidy level of 50% will be instituted.
PRINCIPAL CONTACT(S):	Central Region Mark Heitshu, Manager Community Planning Advisory Branch 47 Sheppard Avenue, 2nd Floor Willowdale, Ontario M2N 2Z8 Telephone: (416) 224-7635 Zenith: 5-2650

PRINCIPAL CONTACT(S):
(continued)

Southeastern Region
Shane Kennedy, Manager
Community Planning Advisory Branch
244 Rideau St., 3rd Floor
Ottawa, Ontario
K1N 5Y3
Telephone: (613) 566-3801
Zenith: 5-2650

Northeastern Region
Bill Winegard, Manager
Community Planning Advisory Branch
1191 Lansing Avenue
Sudbury, Ontario
P3A 4C4
Telephone: (705) 560-0120
Toll Free: 1-800-461-1193

Southwestern Region
Lou Spittal, Manager
Community Planning Advisory Branch
495 Richmond St., 7th Floor
London, Ontario
N6A 5A9
Telephone: (519) 673-1611
Toll Free: 1-800-265-4736

North Western Region
Susan Taylor, Manager
Community Planning Advisory Branch
435 James Street South
Thunder Bay, Ontario
P7C 5G6
Telephone: (807) 475-1651
Zenith: 5-2650

ONTARIO - 07

PROGRAM TITLE:	Energy Conservation Through Land Use Planning Grants.
AGENCY RESPONSIBLE:	Ontario Ministry of Municipal Affairs and Housing.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Province-wide.
PROGRAM OBJECTIVES:	To encourage municipalities to incorporate energy conservation into land use planning programs.
ELIGIBILITY:	Any municipality with a population greater than 15 000.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	Grants are available for 75% of study costs, to a maximum of $50 000 per study, for land use planning studies which will incorporate energy conservation into planning documents, policies or procedures. Examples include Official Plan reviews, zoning by-law revisions, background studies to gather climatological or infill data, etc.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	Ministry of Energy is providing initial funding for the program and assisting with application reviews.
AUTHORIZED PROGRAM FUNDING LEVELS:	$439 000 budgeted for 1983-84.
PROGRAM COMMENCED:	1981
PROGRAM ENDS:	March 1984
CURRENT STATUS:	Over $482 000 has been provided since the program's inception. Deadline for funding applications is September 1983.
PRINCIPAL CONTACT(S):	Central Region Mark Heitshu, Manager Community Planning Advisory Branch 47 Sheppard Avenue, 2nd Floor Willowdale, Ontario M2N 2Z8 Telephone: (416) 224-7635 Zenith: 5-2650 (see previous program for list of additional regional contacts)

ONTARIO - 08

PROGRAM TITLE:	Solar Energy Program.
AGENCY RESPONSIBLE:	Ministry of Energy.
GEOGRAPHICAL COVERAGE OF PROGRAM:	All of Ontario.
PROGRAM OBJECTIVES:	To develop solar energy technology and the solar energy industry.
ELIGIBILITY:	Any group or organization in Ontario. Demonstrations of active systems must use approved collector panels.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	Coordination of activities and technology transfer for solar thermal and photovoltaic technologies. Cost shared development and demonstration of active, passive technologies and photovoltaic solar technologies for appropriate markets with large potential energy yields, specifically: - Passive solar heating - Residential domestic hot water - Commercial/Industrial hot water and process heat - Commercial/Municipal swimming pool heating - Agricultural applications - Remote photovoltaic applications
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	Cooperation with other provincial agencies on specific projects. Also working with private sector groups such as HUDAC in the implementation of residential passive solar projects.
AUTHORIZED PROGRAM FUNDING LEVELS:	$50 million over five years.
PROGRAM COMMENCED:	April 1981
PROGRAM ENDS:	March 1986
CURRENT STATUS:	Proceeding.
COMMENTS:	See "A Solar Energy Strategy for Ontario".

PRINCIPAL CONTACT(S):

Roger Higgin
Executive Coordinator

Syd Johnson
Solar Section Manager
Ministry of Energy

56 Wellesley Street W.
10th Floor
Toronto, Ontario
M7A 2B7

ONTARIO - 09

PROGRAM TITLE:	Buildings Technology Program (The Effect of Thermal Envelope Upgrading in Residential Dwellings on the Economical Substitution of Electricity for Oil Space Heating).
AGENCY RESPONSIBLE:	Ontario Ministry of Energy.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Ontario - Barrie Belleville Hamilton King City Napanee North Bay
PROGRAM OBJECTIVES:	• To gather information on thermal envelope upgrading. • To determine heating demand reductions and energy savings for different degrees of upgrading and identify the most cost effective. • To compare actual heating demand and energy consumption before and after upgrading with calculated values. • To develop empirical rules of thumb to estimate heating demand reductions and energy savings. • To identify problems with upgrading existing homes.
ELIGIBILITY:	N/A
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	• Select 16 out of 49 houses suitable for upgrading and specify the upgrading measures. • Perform upgrading (commercial or DIY). • Monitor through complete heating season. • Perform before and after fan depressurization tests. • Assess all data.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	• Ontario Hydro Corporation • Canadian Electrical Association
AUTHORIZED PROGRAM FUNDING LEVELS:	$118 750 over two years. (Ministry of Energy contribution $53 750)

PROGRAM COMMENCED: May, 1982

PROGRAM ENDS: December, 1983

CURRENT STATUS: $37 000 in funding has been provided to date from the Ministry of Energy.

PRINCIPAL CONTACTS:

Malcolm Lander
Project Leader
Energy Conservation Branch
10th Floor
56 Wellesley St. West
Toronto, Ontario
M7A 2B7
(416) 965-1341

ONTARIO - 10

PROGRAM TITLE:	Housing Energy Management Program (HEMP)
AGENCY RESPONSIBLE:	Ontario Ministry of Energy.
GEOGRAPHICAL COVERAGE OF PROGRAM:	All of Ontario.
PROGRAM OBJECTIVES:	To develop and evaluate cost-effective technologies* for improving energy efficiency of existing single and multi-family dwellings. *Where these are currently inadequate or non-existent.
ELIGIBILITY:	N/A
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	Covers: • Building shell • Building components • Building materials • Mechanical/electrical systems • Mechanical/electrical equipment • Mechanical/electrical controls • Domestic Hot Water Systems.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	Ontario Ministry of Municipal Affairs and Housing.
AUTHORIZED PROGRAM FUNDING LEVELS:	Varies from year to year. $468 700 for fiscal 83/84.
FUNDING PROVIDED TO DATE:	Approximately $1.5 M.
PROGRAM COMMENCED:	1979
PROGRAM ENDS:	Indefinite
CURRENT STATUS:	Ongoing.
PRINCIPAL CONTACTS:	Malcolm Lander Project Leader Energy Conservation Branch 10th Floor 56 Wellesley St. West Toronto, Ontario M7A 2B7 (416) 965-1341

ONTARIO - 11

PROGRAM TITLE:	Energy Conservation Community Outreach (ECCO)
AGENCY RESPONSIBLE:	Ontario Ministry of Energy.
GEOGRAPHICAL COVERAGE OF PROGRAM:	The Riverdale area of the City of Toronto.
PROGRAM OBJECTIVES:	• To contribute to improving the energy efficiency of existing housing by educating and advising homeowners through: - door-to-door canvassing - organizing seminars and workshops - disseminating information through existing community organizations - developing novel techniques for provision of education and advice. • To monitor and evaluate the effectiveness of these information transfer techniques.
ELIGIBILITY:	All residents of the Riverdale area.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	The ECCO project was designed to help test whether the provision of information on energy conservation at the local level would lead to an increase in conservation activity. Two techniques; the house-warming party (a hands-on workshop carried out in a resident's home) and renovation advice (the provision of advice on energy efficiency by the building department to a renovator) have been particularly successful.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	City of Toronto Planning and Development Department
AUTHORIZED PROGRAM FUNDING LEVELS:	$146 104 (Ontario Ministry of Energy)
PROGRAM COMMENCED:	May, 1982
PROGRAM ENDS:	August, 1983
CURRENT STATUS:	$140 000 in funding has been provided to date (August 1983)

COMMENTS:

The project has been completed and is currently being evaluated. The Ministry of Energy will be funding the production of manuals and audio-visual materials on the housewarming parties and renovation advisory service for distribution to interested parties.

PRINCIPAL CONTACTS:

Nancy Singer
Project Coordinator
or
Simon Chamberlain
Program Manager
Research & Information Section
Planning & Development Dept.
City Hall
Toronto, Ontario
M5H 2N2
(416) 947-2185

John Lounds
Conservation Group
Ministry of Energy
10th Floor
56 Wellesley St. West
Toronto, Ontario
M7A 2B7
(416) 965-9334

ONTARIO - 12

PROGRAM TITLE:	Heat Save
AGENCY RESPONSIBLE:	Ontario Ministry of Energy.
GEOGRAPHICAL COVERAGE OF PROGRAM:	All of Ontario.
PROGRAM OBJECTIVES:	To assist homeowners in reducing energy consumption and costs through the use of aerial and ground-based thermograms, and direct advice on cost-effective retrofit measures.
ELIGIBILITY:	Owners of single family and condominium housing units.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	. The Heat Save service is delivered to 60 communities with populations of over 9 000. . The service is delivered through highly publicised clinics. Clinic duration is 1 to 4 weeks, depending on community size.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	Local authorities, such as utility commissions and municipalities, cooperate.
AUTHORIZED PROGRAM FUNDING LEVELS:	$4.9 million over 5 years.
PROGRAM COMMENCED:	September, 1980
PROGRAM ENDS:	March, 1986, approximately.
CURRENT STATUS:	Approximately $4.374 million in funding has been provided to date (August 1983).
PRINCIPAL CONTACTS:	John Quinn Manager Residential Energy Programs 9th Floor 56 Wellesley St. West Toronto, Ontario M7A 2B7 (416) 965-4100

ONTARIO - 13

PROGRAM TITLE:	Residential Energy Advisory Program (REAP)
AGENCY RESPONSIBLE:	Ontario Hydro
GEOGRAPHICAL COVERAGE OF PROGRAM:	All of Ontario.
PROGRAM OBJECTIVES:	To provide advice and assistance on improving energy efficiency and on converting oil to electrical heating alternates.
ELIGIBILITY:	All residences except apartments.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	Two visits by energy advisors and provision of five-year loans up to $2 000 at Hydro's borrowing rate for: • Safe electrical service of adequate capacity. • Energy efficiency of the building shell. • Heating system efficiency improvements. • Conversion from oil to electrical alternates.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	None directly.
FUNDING PROVIDED TO DATE:	$235 000.
PROGRAM COMMENCED:	September, 1981 (Rural) January, 1982 (Municipal)
PROGRAM ENDS:	1991
PRINCIPAL CONTACTS:	Phyllis Mayeda Manager Education and Consumer Services Ministry of Energy 56 Wellesley St. West 9th Floor Toronto, Ontario M7A 2B7 (416) 965-9575

ONTARIO - 14

PROGRAM TITLE:	Super Energy Efficient Home (SEE)
AGENCY RESPONSIBLE:	Ontario Hydro.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Ontario.
PROGRAM OBJECTIVES:	To promote the benefits and techniques of Low Energy residential construction utilizing electricity as the sole energy source.
ELIGIBILITY:	All residences excluding apartments.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	Communication of the Super Energy Efficient concept to builders, home buyers, trades, etc. to encourage this type of residential construction.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	Local municipal electrical utilities; HUDAC.
AUTHORIZED PROGRAM FUNDING LEVELS:	Internal administrative costs.
PROGRAM COMMENCED:	1983
CURRENT STATUS:	Implementation started.
PRINCIPAL CONTACTS:	R.J. Connell Ontario Hydro 620 University Avenue Toronto, Ontario M5G 1X6 (416) 592-7755

MANITOBA - 01

PROGRAM TITLE:	Cut Home Energy Costs (CHEC) (also known as Manitoba Homeowners Insulation Loan Program).
AGENCY RESPONSIBLE:	Manitoba Hydro or Winnipeg Hydro.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Province-wide.
PROGRAM OBJECTIVES:	Energy conservation.
ELIGIBILITY:	Applies only to owners of detached and semi-detached units.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	Provides loans up to $1 000, at a 9.5 per cent interest rate, for expenditures on insulation materials, related items, and labour. Repayment term is up to 20 years.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	The program is financed by the Province of Manitoba through the Department of Energy and Mines. Contractors and suppliers participating in the plan must furnish a $5 000 performance bond or similar security to ensure a measure of protection for the consumer for a period of 3 years. Consumer claims for faulty workmanship and/or materials are handled by Manitoba Housing and Renewal Corporation.
AUTHORIZED PROGRAM FUNDING LEVELS:	N/A
PROGRAM COMMENCED:	1977 PROGRAM ENDS: Indefinite

CURRENT STATUS:

Approvals	Loans	$ Millions
July 1977 to 31 March 1983	33 000	25.0

Average Loan - $760.00

COMMENTS: Program operates independently of Federal Insulation Programs. Applicants may receive both Federal and Provincial funding.

PRINCIPAL CONTACT(S):

Vic Steciuk
Manager
Customer Advisory Services
Manitoba Hydro
820 Taylor Street
P.O. Box 815
Winnipeg, Manitoba
R3C 2P4
(204) 474-3361

R.J. Linton
Director of Business
Business Operations
Winnipeg Hydro
5th Floor
Civic Centre
510 Main Street
Winnipeg, Manitoba
R3B 1C1
(204) 946-0302

MANITOBA - 02

PROGRAM TITLE:	Public Housing Energy Conservation Program.
AGENCY RESPONSIBLE:	Manitoba Housing and Renewal Corporation.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Province-wide.
PROGRAM OBJECTIVES:	To reduce the long term operating costs of Public Housing by increasing the energy efficiency of existing stock.
ELIGIBILITY:	All public housing units owned and operated by MHRC.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	The Corporation is researching and implementing projects to reduce the long term energy requirements of public housing projects comprising 14 000 units across the province. The work addresses the building envelope, mechanical, lighting and electrical systems, and water conservation measures.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	MHRC is presently making use of federal monies through the Purchase and Use of Solar Heat (PUSH) program for active solar heat applications in projects.
AUTHORIZED PROGRAM FUNDING LEVELS:	$600 000 in 1982/83.
PROGRAM COMMENCED:	1980 PROGRAM ENDS: No specific completion date set.
CURRENT STATUS:	On-going.
PRINCIPAL CONTACT(S):	Gae Burns Manager Building Services Manitoba Housing & Renewal Corporation 2nd Floor 287 Broadway Ave. Winnipeg, Manitoba (204) 944-4676 Doug Leeies Design and Technical Department Manitoba Housing & Renewal Corporation 2nd Floor 287 Broadway Ave. Winnipeg, Manitoba (204) 944-4673

MANITOBA - 03

PROGRAM TITLE:	Buy and Renovate Program
AGENCY RESPONSIBLE:	The Manitoba Housing and Renewal Corporation.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Province-wide.
PROGRAM OBJECTIVES:	To assist homebuyers in purchasing an older home, or a larger house, in which renovations are required to update and to rehabilitate the house to suit their needs.
ELIGIBILITY:	The house must be 30 years old or older, cost $30 000 or less (excluding cost of renovations of at least $10 000), and must become the principal residence of the purchaser.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	The Manitoba Government's Buy and Renovate Program provides affordable mortgages at 11.50% for five years. The interest rate is subject to change. The mortgage principal may also be reduced by taking advantage of the benefits of other government repair programs for which the buyer may be eligible. A subsidy may be available to those whose monthly house costs exceed 30% of income.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	None.
AUTHORIZED PROGRAM FUNDING LEVELS:	Estimated loans requirement for fiscal 1983/84 is approximately $4 million.
PROGRAM COMMENCED:	July 1982. PROGRAM ENDS: Indefinite.
CURRENT STATUS:	Target - 125 to 150 loans for the current year.
COMMENTS:	The Buy and Renovate Program is one component of the provincial government's "Homes Manitoba" program package.
PRINCIPAL CONTACT(S):	William N. Shklanka, Administrator Buy and Renovate Program Manitoba Housing and Renewal Corporation 287 Broadway Avenue Winnipeg, Manitoba R3C 0R9 (204) 944-4764

MANITOBA - 04

PROGRAM TITLE: Critical Home Repair Program (C.H.R.P.)

AGENCY RESPONSIBLE: The Manitoba Housing and Renewal Corporation.

GEOGRAPHICAL COVERAGE OF PROGRAM: Province-wide.

PROGRAM OBJECTIVES: To enable pensioners, disabled persons and low-income families to undertake critical home repairs.

ELIGIBILITY: The program is designed to assist pensioners and qualifying families with the repair and the rehabilitation of their own homes. In addition CHRP will provide needed jobs in Manitoba's construction industry. Housing units must be at least 10 years old but exceptions may be permitted where emergency repairs are required for health and safety reasons. Applicants must occupy their homes to be eligible.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: The program provides grants of up to $1 500 on a sliding scale for pensioners and disabled persons on provincial social assistance with a maximum gross income of up to $14 000, and up to $3 000 in loans and grants to families with a maximum adjusted gross family income of up to $16 000. Eligible repairs include wiring, plumbing, roofs, structural defects, as well as energy conservation-related components such as new doors and windows.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: Funding for insulation is piggy-backed with CHIP assistance from EMR Canada.

AUTHORIZED PROGRAM FUNDING LEVELS: In fiscal 1983/84, $3 million alloted for seniors and disabled; $1 million for low income groups.

PROGRAM COMMENCED: 1975 (revised 1982) ENDS: Continual.

CURRENT STATUS:

Approved Grants	No. of Units	$ Millions
1982-83	3 600	4.27

Average grant - 1982-83 - $1 193.82

PRINCIPAL CONTACT(S):

Doug Hacking, Co-ordinator
Critical Home Repair Program
The Manitoba Housing and Renewal Corporation
2nd Floor, 287 Broadway Avenue
Winnipeg, Manitoba
(204) 944-2300

SASKATCHEWAN - 01

PROGRAM TITLE:	Warm-up Saskatchewan.
AGENCY RESPONSIBLE:	Saskatchewan Power Corporation. (A government-owned utility supplying all natural gas and electric power (except electricity to Saskatoon and Swift Current).
GEOGRAPHICAL COVERAGE OF PROGRAM:	Province-wide.
PROGRAM OBJECTIVES:	To upgrade the energy conservation qualities of owner-occupied dwellings.
ELIGIBILITY:	Limited to owner-occupied units including mobile homes. More than one application is possible for cumulative loans within the limit.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	The provision of interest-free loans of up to $1 000 (a minimum of $100) to homeowners who wish to purchase and/or install materials for upgrading the energy conservation qualities of their home. Repayment term is up to three years and monthly payments are included in the homeowners S.P.C. energy bill.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	Funding is provided and the program is administered by Saskatchewan Power Corporation. Approximately 10% of the units are inspected by the Saskatchewan Housing Corporation. The Saskatchewan Department of Consumer and Corporate Affairs is responsible for the licencing and bonding of insulation contractors.
AUTHORIZED PROGRAM FUNDING LEVELS:	As required.
PROGRAM COMMENCED:	1978 ENDS: Indefinite.
CURRENT STATUS:	Total loans paid to June 1983 $11 478 531 Average Loan Amount $675
COMMENTS:	Program operates independently of the Federal Insulation Programs. Applicants may receive both Federal and Provincial funding and funds from this program can be used as client contributions to CHIP and other related federal programs.

PRINCIPAL CONTACT(S):

A.M. Markel
Residential Service Advisor
Saskatchewan Power Corporation
2025 Victoria Avenue
Regina, Saskatchewan
S4P 0S1
(306) 527-7611

SASKATCHEWAN - 02

PROGRAM TITLE:	Home Energy Loan Program.
AGENCY RESPONSIBLE:	Saskatchewan Power Corporation.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Province-wide.
PROGRAM OBJECTIVES:	To encourage the construction of energy efficient houses.
ELIGIBILITY:	Program applies to first time purchase of certified, energy efficient homes. The homes may be single-detached or multiple unit dwellings except apartment condominiums. They must be owner-occupied. (To be certified, homes must meet standards designed to reduce space heating requirements by 75% compared with conventional homes).
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	Provides interest-free loans to a maximum of $3 000 repayable over 10 years for residential units which are built according to specifications. Repayment for ten years at $25/month is included in the home owner's SPC energy bill.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	Administration and funding by SPC. Saskatchewan Housing Corporation provides technical advisory services and inspections.
AUTHORIZED PROGRAM FUNDING LEVELS:	1982 budget: $1.5 million in loans for 500 units.
PROGRAM COMMENCED:	1 July 1981 ENDS: Indefinite.
CURRENT STATUS:	On-going.
COMMENTS:	Application forms are distributed through the Saskatchewan Power Corporation Offices.
PRINCIPAL CONTACT(S):	A.M. Markel Residential Service Advisor Saskatchewan Power Corporation 2025 Victoria Avenue Regina, Saskatchewan S4P 0S1 (306) 527-7611

SASKATCHEWAN - 03

PROGRAM TITLE: Senior Citizens Home Repair.

AGENCY RESPONSIBLE: Saskatchewan Housing Corporation.

GEOGRAPHICAL COVERAGE OF PROGRAM: Province-wide.

PROGRAM OBJECTIVES: To assist senior citizens who wish to make essential repairs to their own homes.

ELIGIBILITY: Senior citizens 65 years of age or older at the time of application are eligible. Applicants must own and occupy the home being improved and the household income must not exceed $7 000 for individuals and $11 000 for couples.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: The amount of the grant ranges from $350 to $650, depending on income and the cost of repairs. The grant is renewable every five years.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: None.

AUTHORIZED PROGRAM FUNDING LEVELS: $900 000 for 1983.

PROGRAM COMMENCED: 1973 (revised 1978) ENDS: Indefinite.

CURRENT STATUS:

Households Approved	Number	$
1973-75	20 077	6 515 990
1976	2 699	1 075 929
1977	1 224	526 953
1978	5 401	802 946
1979	9 315	6 944 950
1980	2 006	1 659 071
1981	1 290	976 007
1982	1 388	1 001 527

COMMENTS: This grant may be stacked with RRAP or the Saskatchewan Residential Rehabilitation Program.

PRINCIPAL CONTACT(S):

Russ Krywulak
Saskatchewan Housing Corporation
2500 Victoria Avenue
Regina, Saskatchewan
S4P 3V7
(306) 565-4207

SASKATCHEWAN - 04

PROGRAM TITLE: Residential Rehabilitation Program.

AGENCY RESPONSIBLE: Saskatchewan Housing Corporation.

GEOGRAPHICAL COVERAGE OF PROGRAM: Province-wide (including large urban centers).

PROGRAM OBJECTIVES: To assist low-income homeowners who are not eligible for RRAP in carrying out essential repairs to their dwellings.

ELIGIBILITY: Homeowners with an adjusted family income of $16 500 or less per annum. Repairs must be directly related to the occupied unit used as principal residence and approved by SHC before work is begun. Must be doing at least $1 000 in work which will raise home to a standard acceptable to SHC.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: The province provides low interest, 20 year loans of up to $8 000 including a forgivable amount based on family income and the cost of repairs. The maximum forgiveness is $2 500 and the borrower must continue to reside in the home for up to 5 years. The maximum amortization period is 20 years. The amount is repayable in monthly installments with interest at 8 7/8% per annum.

Annual Adjusted Family Income	Present Forgiveness
$ 9 000 or less	60%
$11 500	47.5%
$15 000	30%
$16 500	22.5%

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: None - (100% provincially funded)

AUTHORIZED PROGRAM FUNDING LEVELS: $700 000 for 1983.

PROGRAM COMMENCED: Nov. 1973 ENDS: Indefinite.

CURRENT STATUS:

Residential Rehabilitation Loans	Number Paid	Amount Committed $	Amount Forgiven $
1973 (Nov. & Dec.)	13	25 233	9 152
1974	288	964 937	900 208
1975	336	900 208	252 058
1976	292	864 315	174 799
1977	703	2 331 248	1 000 214
1978	1 013	2 692 554	1 529 630
1979	2 518	5 813 758	3 753 938
1980	743	1 975 788	1 183 599
1981	658	1 712 893	597 720
1982	1 121	3 463 100	1 798 344

COMMENTS:

This loan cannot be stacked with RRAP loans. However, senior citizens can combine the Residential Rehabilitation assistance with that of the Senior Citizen Home Repair Program to increase the amount of forgiveness.

PRINCIPAL CONTACT(S):

Russ Krywulak
Saskatchewan Housing Corporation
2500 Victoria Avenue
Regina, Saskatchewan
S4P 3V7
(306) 565-4207

SASKATCHEWAN - 05

PROGRAM TITLE:	Video Series on Energy Efficient Housing
AGENCY RESPONSIBLE:	Saskatchewan Energy and Mines.
GEOGRAPHICAL COVERAGE OF PROGRAM:	The series will be available to interested parties across Canada.
PROGRAM OBJECTIVES:	To encourage the incorporation of energy-efficient building principles and methods in new housing.
ELIGIBILITY:	Developed for general television audience, homebuilders and buyers, and for use in teaching situations.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	The series consist of 6 half-hour programs dealing with energy conserving measures applicable to new housing construction. Topics include infiltration, insulation, and energy supply (conventional and solar).
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	The series is a co-production of Saskatchewan Energy and Mines and ACCESS Alberta. Funding for the Saskatchewan series was provided under the Canada/Saskatchewan Conservation and Renewable Energy Demonstration Agreement (CREDA) in co-operation with Energy, Mines and Resources Canada.
AUTHORIZED PROGRAM FUNDING LEVELS:	$150 000
PROGRAM COMMENCED:	1981 PROGRAM ENDS: Almost complete.
CURRENT STATUS:	Videotapes to be ready for use in the summer of 1983.
COMMENTS:	Saskatchewan Energy and Mines has produced 6 half-hour programs on conservation measures for new housing. ACCESS Alberta has produced a complementary series of 6 on existing housing (see Alberta-04).

PRINCIPAL CONTACT(S):

Gail Smith
Head, Marketing and Promotions
Energy Technology Branch
Sakatchewan Energy and Mines
14th Floor
Toronto-Dominion Bank Building
1914 Hamilton Street
Regina, Saskatchewan
S4P 4V4
(306) 565-3037

ALBERTA - 01

PROGRAM TITLE:	Energy Savers Workshop Program
AGENCY RESPONSIBLE:	Energy Conservation Branch, Alberta Energy and Natural Resources
GEOGRAPHICAL COVERAGE OF PROGRAM:	Province-wide.
PROGRAM OBJECTIVES:	To train homeowners in simple conservation payback decision-making and introduce them to home energy-saving technology. To provide a province-wide training service developing local expertise.
ELIGIBILITY:	Alberta homeowners.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	A number of workshop presenters from major centres across the province were trained and provided with workshop kits including A/V materials, samples of home energy conservation items and publications. They are provided with some assistance but in general must do their own local marketing to line up workshop opportunities. Presenters are paid expenses plus a stipend per workshop, on a contract basis.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	Starting in August 1983, this program will include undertaking workshops for the Department of Housing's CHAP (Cooperative Housing Action Program) Retrofit Training Program.
AUTHORIZED PROGRAM FUNDING LEVELS:	$40 000 in 1983.
PROGRAM COMMENCED:	December 1982
CURRENT STATUS:	In its first four months of operation, the program involved 950 participants through 50 workshops in 15 different locations around the province. Activity is expected to increase with involvement in CHAP program during the fall of 1983.
COMMENTS:	The standard workshop presentation includes multi-colour overhead projector transparencies and involves the audience in small group, hands-on activities.

PRINCIPAL CONTACT(S):

Stephen Tyler
Manager, Policy Analysis and Liaison
Energy Conservation Branch
Alberta Energy and Natural Resources
2nd Floor
10010 - 106 Street
Edmonton, Alberta
T5J 3L8
(403) 427-5200

ALBERTA - 02

PROGRAM TITLE:	General Advocacy Residential Conservation Program
AGENCY RESPONSIBLE:	Energy Conservation Branch, Alberta Energy and Natural Resources
GEOGRAPHICAL COVERAGE OF PROGRAM:	Province-wide.
PROGRAM OBJECTIVES:	To promote the concept of wise energy use among all Albertans, with a special focus on homeowners.
ELIGIBILITY:	All residents of Alberta.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	Program activities include development and distribution of publications, fact sheets and posters (either independently or in co-operation with other government agencies) plus advertising programs, public service announcements, A/V materials, etc.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	Joint projects are frequently undertaken. Examples include assistance to Department of Agriculture on a publication dealing with new housing (Low Energy Home Designs), Department of Utilities and Telecommunications on an annual utility Energy Use Statement, and Department of Housing/ACCESS (Alberta Educational Communications Corporation) on a series of training videotapes for residential retrofits.
AUTHORIZED PROGRAM FUNDING LEVELS:	$136 000 in 1983.
PROGRAM COMMENCED:	Ongoing.
CURRENT STATUS:	Check with contact person for recent activities.
COMMENTS:	Publications, posters, and other materials are available.
PRINCIPAL CONTACT(S):	Stephen Tyler Manager, Policy Analysis and Liaison Energy Conservation Branch Alberta Energy and Natural Resources 2nd Floor, 10010 - 106 Street Edmonton, Alberta T5J 3L8 (403) 427-5200

ALBERTA - 03

PROGRAM TITLE:	Alberta - Canada Energy Resources Research Fund (A/CERRF) - Energy Conservation in Buildings.
AGENCY RESPONSIBLE:	Alberta Energy and Natural Resources.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Alberta.
PROGRAM OBJECTIVES:	The Alberta/Canada Energy Resources Research Fund has two basic objectives: • to promote and support research into the development and efficient use of Alberta's existing and potential energy resources, having regard for the province's and Canada's medium and longer-term energy needs; and • to encourage the development of Alberta-based scientific and technical expertise in the field of energy research and development.
ELIGIBILITY:	Eligible research projects shall include those relating to exploration, production, transportation, conservation and utilization of Alberta's energy resources.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	Financial assistance is provided to builders to develop innovative energy saving designs and systems to pay for extraordinary construction expenses attributable to energy saving features and to pay the costs of demonstration.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	Jointly funded by the Government of Alberta and Energy, Mines and Resources, Canada. The Housing and Urban Development Association of Canada (HUDAC) is involved in research for the "Energy Efficient Housing Demonstration Project" and the University of Alberta with respect to "Assessment of Solar Heating Techniques in Housing".
AUTHORIZED PROGRAM FUNDING LEVELS:	In fiscal 1981/82 the Fund had a budget of $9.59 million.
PROGRAM COMMENCED:	1977 PROGRAM ENDS: Ongoing.

CURRENT STATUS:

Examples of housing-related research supported by the Fund are as follows:

(i) Energy Efficient Housing Demonstration Project - provided financial assistance to builders to construct ten energy efficient homes in 1981 - Project completion expected in 1984.

(ii) Assessment of Solar Heating Techniques in Housing - involves six test homes. Testing has been carried out since 1979 and was completed in March 1983.

(iii) Energy Conservation in Buildings - Research, Development and Demonstration Program. A total of $850 000 is available for projects involving HVAC systems, retrofit of highrise and commercial/industrial buildings, product/material development and residential retrofit and heating system demonstrations. Deadline for submissions is 12 August 1983.

PRINCIPAL CONTACT(S):

R.D. McDonald
Executive Director
Scientific & Engineering Services
Alberta Energy and Natural Resources
9915 - 108 Street
Edmonton, Alberta
T5K 2C9
(403) 427-3731

Dr. Peter J. Dyne
Director General
Office of Energy Research and Development
Energy Mines and Resources
580 Booth Street
Ottawa, Ontario
K1A 0E4
(613) 992-3738

ALBERTA - 04

PROGRAM TITLE:	Video Series on Energy Efficient Housing
AGENCY RESPONSIBLE:	ACCESS Alberta (the Alberta Educational Communications Corporation).
GEOGRAPHICAL COVERAGE OF PROGRAM:	It is expected that the series will be available for distribution to interested organizations across Canada.
PROGRAM OBJECTIVES:	To encourage the incorporation of energy efficient building principles and methods in existing housing.
ELIGIBILITY:	Developed for general television audience, homebuilders and buyers, and for use in teaching situations in technical schools.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	The series consists of 6 half-hour programs dealing with energy conserving measures applicable to existing housing. Topics include infiltration, insulation, and energy supply (conventional and solar).
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	The series is a co-production of ACCESS Alberta and Saskatchewan Energy and Mines. Funding for the Alberta series was supplied by ACCESS, Alberta Housing and Public Works, and Alberta Energy and Mineral Resources.
AUTHORIZED PROGRAM FUNDING LEVELS:	N/A.
PROGRAM COMMENCED:	1981 PROGRAM ENDS: Nearing completion.
CURRENT STATUS:	Video tapes will be ready for use in the fall of 1983.
COMMENTS:	ACCESS has produced 6 half-hour programs on conservation measures for existing housing. Saskatchewan has produced a complementary series of 6 on new housing (see Saskatchewan-05).

PRINCIPAL CONTACT(S):

Sherrell Beresh
ACCESS Alberta
16930 - 114th Avenue
Edmonton, Alberta
T5M 3S2
(403) 451-3160, ext. 255

ALBERTA - 05

PROGRAM TITLE:	Innovative Housing Grants Program.
AGENCY RESPONSIBLE:	Alberta Department of Housing.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Province-wide.
PROGRAM OBJECTIVES:	To encourage, sponsor, and assist research and development in the fields of housing, site and subdivision design, energy conservation, site servicing and urban development which offer to reduce housing costs, increase housing supply or improve the utility or performance of dwelling units or subdivisions.
ELIGIBILITY:	Builders, developers, consulting firms, industry groups, municipal governments, educational institutions, non-profit groups (Co-ops, community and professional groups) and individuals are eligible.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	Proposals for research, design, development, field testing and demonstration will be considered for funding. Grants up to $25 000 are available to those who qualify.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	None.
AUTHORIZED PROGRAM FUNDING LEVELS:	$500 000 in 1983.
PROGRAM COMMENCED:	1978 PROGRAM ENDS: Ongoing
CURRENT STATUS:	Approximately 50 projects have been funded under this program to date of which 20 projects are directly related to energy conservation in housing.
PRINCIPAL CONTACT(S):	Linden Holmen, Director Planning and Research Alberta Department of Housing 4th Floor, 10050 - 112th Street Edmonton, Alberta T5K 2J1 (403) 427-8150

ALBERTA - 06

PROGRAM TITLE:	Seniors' Home Improvement Program (SHIP).
AGENCY RESPONSIBLE:	Alberta Department of Housing.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Province-wide.
PROGRAM OBJECTIVES:	1. Assist senior citizens to keep their homes in good repair. 2. Assist senior citizens to stay longer in their homes. 3. Generate additional economic activity in the home repair and retail sector.
ELIGIBILITY:	Senior citizens (65 years of age or older or a widow or widower aged 55 to 64 years) who live in their homes nine months of the year and whose total annual income does not exceed $20 000.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	Provides grants to a maximum of $3 000 for permanent repairs or improvements to their own home or garage including alterations, purchase or improvement of heating and electrical systems, general decorating, and energy conservation measures.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	None.
AUTHORIZED PROGRAM FUNDING LEVELS:	N/A.
PROGRAM COMMENCED:	1 December 1982 PROGRAM ENDS: No deadline.
CURRENT STATUS:	Provided grants for 42 000 units (est.) over a 9 month period (Dec./82 - Aug./83).
PRINCIPAL CONTACT(S):	Director, Seniors' Home Improvement Program 11156 Jasper Avenue, Main Floor P.O. Box 2453 Edmonton, Alberta T5J 3B8 (403) 427-5760

ALBERTA - 07

PROGRAM TITLE: Senior Citizen Lodge Program.

AGENCY RESPONSIBLE: Alberta Housing Corporation.

GEOGRAPHICAL COVERAGE OF PROGRAM: Province-wide.

PROGRAM OBJECTIVES: To provide housing to Alberta's senior citizens at rates they can afford in both rural and urban areas.

ELIGIBILITY: Any senior citizen of 65 years of age or older who has resided in Alberta one year prior to application for accommodation is eligible. There are no asset or income limits.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: AHC finances 100% of the construction costs of new lodging, including all furnishings and fixtures, and provides assistance towards upgrading or increasing the size of existing projects. Renovations are mainly structural, but partly related to energy conservation. The rates for room and board are set by AHC.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: Non-profit corporations, municipalities and senior citizens foundations are responsible for the administration of self-contained units. The governments of Alberta and Canada share operating deficits equally.

AUTHORIZED PROGRAM FUNDING LEVELS: Determined by requirement.

PROGRAM COMMENCED: 1978 PROGRAM ENDS: Indefinite.

CURRENT STATUS:

Units financed	Number	$ Millions
1978-83	2 053	84.0

Average unit cost $39 265.

PRINCIPAL CONTACT(S):

Art Doyarzin
Director, Property Mangement
Doug Brown, Property Manager
Property Management Services
Alberta Housing Corporation
90405 - 50th Street
Edmonton, Alberta
T6B 2T4
(403) 468-3535

ALBERTA - 08

PROGRAM TITLE:	Home Conversion Program.
AGENCY RESPONSIBLE:	Alberta Housing and Pubic Works.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Province-wide. Applies to all municipalities in the province.
PROGRAM OBJECTIVES:	To stimulate the development of additional rental accommodation in Alberta.
ELIGIBILITY:	Owners who convert part or all of their home to self-contained suites or light housekeeping rooms are eligible for low interest loans. To qualify for both the guaranteed loan and the subsidy, an owner must rent the converted suite or room for at least six months in the first year after renovation and for a minimum of nine months each following year.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	Guaranteed loans of up to $10 000 are available through participating financial institutions to cover renovation costs. The loans are renewable annually and have a 10 year amortization period. Subsidies are provided by the Alberta Housing and Public Works Department to reduce the interest rates on loans to 12 per cent. Subsidies are provided for a maximum of five years.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	The Alberta Housing and Public Works Department provides interest-reduction subsidies. Loans provided by financial institutions.
AUTHORIZED PROGRAM FUNDING LEVELS:	N/A.
PROGRAM COMMENCED:	1980 PROGRAM ENDS: Possible termination in 1984.
CURRENT STATUS:	$6 589.32 advanced (17 subsidies) since program inception. 551 inquiries since program inception (as of May 1983) 25 applications received since inception. 8 applications withdrawn/rejected. 17 applications approved since program inception.

PRINCIPAL CONTACT(S):

Bruce McGlashan
Home Conversion Program
Alberta Housing and Public Works
10050 - 112th Street, 3rd Floor
Edmonton, Alberta
T5K 1L9
(403) 427-0143

ALBERTA - 09

PROGRAM TITLE: Solar and Wind Energy Research Program (SWERP)

AGENCY RESPONSIBLE: Alberta Research Council.

GEOGRAPHICAL COVERAGE OF PROGRAM: Edmonton, with 7 monitoring stations located throughout the province.

PROGRAM OBJECTIVES:

1) To establish and maintain an information centre on solar and wind energy.

2) To assess Alberta's solar and wind energy resources using sophisticated instrumentation at strategic locations throughout Alberta.

3) To demonstrate and develop a program in solar and wind energy utilization relevant to the western Canadian climate.

ELIGIBILITY:

DESCRIPTION OF PROGRAM AND ASSISTANCE 'ERED:

1) Monitoring Program: Six stations have been installed and meteorological data is now routinely collected at Fort McMurray, Edson, Rock Mountain House, Coronation, Lethbridge and Pincher Creek. A new station is currently under construction at U of A, south of Edmonton. Eleven distinct components are monitored including direct, diffuse and net solar radiation, wind speed, temperature and direction.

2) SWERP Information Centre: A bibliographic collection totalling approximately 8 500 items have been collected to date. A computerized, on-line data base provides for an efficient literature search and remote access to the data base. A monthly acquisition list is available to interested subscribers. A limited technical resource staff is at hand in support of technical inquiries.

3) SWECS Pumping Project: A demonstration/test site has been established in Lethbridge to assess the application of small wind energy conversion systems (SWECS) for drainage water pumping as well as for other water pumping applications.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:

The basic SWERP program is fully funded from the Alberta/Canada Energy Resources Research Fund (A/CERRF). The SWECS pumping project is jointly funded by A/CERRF, Farming for the Future and Alberta Agriculture.

AUTHORIZED PROGRAM FUNDING LEVELS:

FY 1983/84 approved A/CERRF funds for the basic SWERP Program totals $254 195. Joint funding for the SWECS pumping site totals $367 765 over a three year period. $300 000 routine monitoring approved until March 1985. Total to date: $1 816 866.

PROGRAM COMMENCED: 1 April 1977 PROGRAM ENDS: Open.

CURRENT STATUS:

- Information requests have steadily increased and are averaging 150 to 175 inquiries per month. New entries are recorded into the data base at a similar rate. A substantial portion of the bibliographic collection relates to energy conservation in buildings.

- Six monitoring stations are operational with monthly data summaries available upon request.

- All six wind turbines have been erected for testing and demonstration. Official demonstration day scheduled for August, 1983. Individual visits throughout the project duration encouraged through prior arrangements.

COMMENTS:

For additional information and/or standard SWERP projects information sheets, please contact:

SWERP Information Centre
c/o Alberta Research Council
5th Floor, Terrace Plaza
4445 Calgary Trail South
Edmonton, Alberta
T6H 5R7
(403) 438-1666

For Lethbridge SWECS site visitations, contact:

Mr. B. Paterson, P.Ag.
Head, Drainage Section
Irrigation Division
Alberta Agriculture
Agriculture Centre, Jail Road
Lethbridge, Alberta
T1J 4C7
(403) 329-5159

PRINCIPAL CONTACT(S):

1) Dr. H.B. (Bernie) Luft, P.Eng.
Manager SWERP
4th Floor, Terrace Plaza
4445 Calgary Trail South
Edmonton, Alberta
T6H 5R7
(403) 438-1555

2) Mr. Dave Baker, Project Engineer
SWECS Pumping Project
SWERP Information Centre
4th Floor, Terrace Plaza
4445 Calgary Trail South
Edmonton, Alberta
T6H 5R7

3) Ms. Karen Beliveau, Coordinator
SWERP Information Centre
4th Floor, Terrace Plaza
4445 Calgary Trail South
Edmonton, Alberta
T6H 5R7

BRITISH COLUMBIA - 01

PROGRAM TITLE: B.C. Hydro Energy Savings and Finance.

AGENCY RESPONSIBLE: British Columbia Hydro.

GEOGRAPHICAL COVERAGE OF PROGRAM: Province-wide.

PROGRAM OBJECTIVES: To assist homeowners in insulating their homes and upgrading their insulation levels to RSI 6.0 (R34) in the ceiling.

ELIGIBILITY: Applies to owners of detached and semi-detached residential homes who have an account in good standing with B.C. Hydro. Eligible for one loan only.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Provides loans up to $750 for expenditures on insulation materials, related items (including windows), and labour. The interest rate is 10 per cent on a reducing monthly balance. Repayment term is up to two years.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: Authorized contractors or do-it-yourself customers.

AUTHORIZED PROGRAM FUNDING LEVELS: No limit.

PROGRAM COMMENCED: 1977 PROGRAM ENDS: Reviewed annually.

CURRENT STATUS:

Loans approved	Units	$
Sept. 1977 to April 1983	24 705	10 970 401
Average loan	$444.00	

COMMENTS: Program operates independently of the Federal Insulation Programs; it supplements the federal programs. Applicants may receive both Federal and Provincial Funding.

PRINCIPAL CONTACT(S):

R.T. Martin, Manager
Energy Communications Division
B.C. Hydro and Power Authority
625 Howe Street, 6th Floor
Vancouver, B.C. V6C 2T6
(604) 663-3253

BRITISH COLUMBIA - 02

PROGRAM TITLE:	Advisory Programs.
AGENCY RESPONSIBLE:	British Columbia Hydro.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Province-wide.
PROGRAM OBJECTIVES:	To provide information and guidance to Hydro customers on options available in energy conservation.
ELIGIBILITY:	All Hydro customers.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	1. Audit program provides analysis of energy use in customer's residence. Uses computer to analyze insulation and glazing. 2. Energy Efficient Home Planning Kit - provides packages on Heating, Water Heating, Appliances, Lighting, and Solar Systems. 3. Home Care and Use booklets provide information on efficient and effective utilization of all home appliances.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	None.
AUTHORIZED PROGRAM FUNDING LEVELS:	Varies with program demand.
PROGRAM COMMENCED:	1976 PROGRAM ENDS: On-going.
CURRENT STATUS:	All programs on-going - promoted at various displays and shows held throughout B.C., such as the Pacific National Exhibition Home Show, shopping mall displays, etc. Material advertised in magazines.
COMMENTS:	Very successful.
PRINCIPAL CONTACT(S):	R.T. Martin B.C. Hydro Energy Communication Department 6th Floor - 625 Howe Street Vancouver, B.C. V6C 2T6 (604) 663-3253

BRITISH COLUMBIA - 03

PROGRAM TITLE:	Save Energy Save Money Lighting Program.
AGENCY RESPONSIBLE:	British Columbia Hydro.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Province-wide.
PROGRAM OBJECTIVES:	To provide recommendations for energy conserving lighting based on a computerized analysis of lighting systems in apartments and other buildings. To provide alternatives based on reduced energy needs and life cycle costing.
ELIGIBILITY:	Apartment owners, merchants and owners of other commercial buildings.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	An information package is given to the participant, who completes a questionnaire which is analyzed by computer. Recommendations are returned to the customer. Package includes information on lighting maintenance, control and recommended systems.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	None.
AUTHORIZED PROGRAM FUNDING LEVELS:	Varies with program demand.
PROGRAM COMMENCED:	1978 PROGRAM ENDS: On-going.
CURRENT STATUS:	Computerized lighting analyses are available for commercial, industrial, institutional and recreational facilities.
PRINCIPAL CONTACT(S):	Mr. M.P. Carabott Projects Engineer B.C. Hydro 7th Floor - 625 Howe Street Vancouver, B.C. V6C 2T6 (604) 663-3981

BRITISH COLUMBIA - 04

PROGRAM TITLE: Rental Unit Conversion Loan Program.

AGENCY RESPONSIBLE: Ministry of Land, Parks and Housing.

GEOGRAPHICAL COVERAGE OF PROGRAM: Available throughout B.C. wherever municipal bylaws will allow conversion of existing residential or commercial buildings to multi-unit rental residential accommodation.

PROGRAM OBJECTIVES: Creation of additional rental housing stock of generally more affordable type, without increasing the need for or extent of new utilities and infrastructure.

ELIGIBILITY: Persons and corporations wishing to convert family dwellings or commercial buildings into duplexes or multi-unit rental accommodation.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED: Provides loans of $25 000 for each new unit created. Interest rate is the NHA rate if the loan is given as a second mortgage, or 1% below the NHA rate to a maximum of 15% if a first mortgage.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: None.

AUTHORIZED PROGRAM FUNDING LEVELS:

PROGRAM COMMENCED: 1974 PROGRAM ENDS: On-going.

CURRENT STATUS:

Approved Loans	No. of Units	$ Million
1982-83	129	2.3

PRINCIPAL CONTACT(S):

Doug Ausman
Director of Housing
Andrew Armitage, Ass't Deputy Minister
B.C. Ministry of Lands, Parks & Housing
Parliament Buildings
Victoria, B.C.
V8W 2Y5
(604) 387-5381

YUKON - 01

PROGRAM TITLE:	Public Housing Stock Thermofit.
AGENCY RESPONSIBLE:	Yukon Housing Corporation.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Yukon.
PROGRAM OBJECTIVES:	To upgrade the thermal efficiency of the Corporation's housing stock.
ELIGIBILITY:	Units owned and operated by YHC.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	Upgrading measures undertaken include increasing attic insulation, framing and insulating concrete basements, insulating floor areas over open crawl spaces, caulking and weatherstripping.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	None.
AUTHORIZED PROGRAM FUNDING LEVELS:	1983/84 $120 000.
PROGRAM COMMENCED:	1979 PROGRAM ENDS: 1985
CURRENT STATUS:	Nearing completion. Program to be wound down in 1984. The Corporation is also conducting an experimental project in Dawson City involving the use of waste heat from a generating plant to heat 6 nearby housing units owned by YHC.
PRINCIPAL CONTACT(S):	Ron Cozzetto Yukon Housing Corporation Suite 205 303 Jarvis Street Whitehorse, Yukon Y1A 2H3 (403) 667-5758

YUKON - 02

PROGRAM TITLE:	Wood Heating Program (unofficial title)
AGENCY RESPONSIBLE:	Yukon Housing Corporation.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Yukon.
PROGRAM OBJECTIVES:	To reduce heating costs of staff housing units in the Yukon.
ELIGIBILITY:	Government-owned units rented to employees in the Yukon.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	The program encourages government employees residing in staff housing to purchase and install wood heating stoves. Employees pay the initial cost, and the Program buys back the equipment in the event employees move within 5 years. Buy-back amounts are on a sliding scale; 80% of the cost after 1 year, 60% after 2 years, etc. Assistance is also provided to defray increased insurance premiums.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	None.
AUTHORIZED PROGRAM FUNDING LEVELS:	Funded as required.
PROGRAM COMMENCED:	PROGRAM ENDS: Indefinite.
CURRENT STATUS:	To date, about one third of all staff housing in the Yukon has had wood-burning stoves installed.
PRINCIPAL CONTACT(S):	Ron Cozzetto Yukon Housing Corporation Suite 205 303 Jarvis Street Whitehorse, Yukon Y1A 2H3 (403) 667-5758

NWT - 01

PROGRAM TITLE: All Assisted Housing Programs.

AGENCY RESPONSIBLE: The Northwest Territories Housing Corporation.

GEOGRAPHICAL COVERAGE OF PROGRAM: The Northwest Territories.

PROGRAM OBJECTIVES: The NWTHC operates approximately 40 per cent of all housing in the NWT. Energy consumption rates are high due to the climate, and costs are at least double those of southern Canada. A major objective of all NWTHC programs is to achieve high energy conservation levels.

ELIGIBILITY: Assisted housing programs are available to all low-income people in the Territories.

DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:

1) Twenty-four efficient homes of experimental design are being constructed to test new construction methods and mechanical systems design. These homes are expected to be at least 45% more energy efficient than previous units. The results of this experiment will be closely monitored and successful techniques will be carried over into future construction. This program is valued at $2 880 000.

2) Rehabilitation and retrofit programs that will improve energy efficiency include extensively upgrading 140 units and modifying an additional 65 units. The total value of this work is $10 925 000.

3) Tenant energy conservation is promoted through the distribution of educational material. Brochures describe the proper use of major appliances in the home and how to save energy generally. "Turn your lights off" stickers are provided for placement next to light switches. All printed material is available in both Inuktitut and English. This program is valued at approximately $10 000.

4) The Corporation has begun implementation of a tenant "user pay" program for electricity. A split billing system will be utilized so that the tenant will receive a billing at a subsidized rate and the housing association

will be billed the remainder. The rate structure for tenants is determined within NWTHC policy guidelines by the housing association. All regional centres and the southwestern NWT will be on the program by the end of 1983. The remainder of the NWT communities will go on the program in 1984.

INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES: Territorial Housing Programs are cost shared with CMHC and EMR.

AUTHORIZED PROGRAM FUNDING LEVELS: Approximately $14 000 000 will be invested in energy related aspects of energy conservation in 1982/83.

PROGRAM COMMENCED: PROGRAM ENDS: Indefinite.

CURRENT STATUS: On-going.

PRINCIPAL CONTACT(S): Northwest Territories Housing Corporation
P.O. Box 2100
Yellowknife, NWT
X1A 2P6
(403) 873-7853

NWT - 02

PROGRAM TITLE:	Energy Conservation Capital Projects.
AGENCY RESPONSIBLE:	Department of Public Works, Government of the NWT.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Northwest Territories.
PROGRAM OBJECTIVES:	To initiate a series of projects to conserve energy and reduce energy expenditures.
ELIGIBILITY:	Departments and Agencies of the G.N.W.T.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	See current status.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	Territorial Housing Programs are cost shared with CMHC and EMR.
AUTHORIZED PROGRAM FUNDING LEVELS:	Not available (part of internal budgets for operation, repairs and maintenance of several departments and agencies).
PROGRAM COMMENCED:	PROGRAM ENDS: On-going.
CURRENT STATUS:	There are 6 Capital projects now underway which include items such as: - eliminating unnecessary lighting and changing lamps to fluorescent (ongoing) - replacement of most electric hot water heaters with oil fired heaters (complete) - improving combustion efficiency of furnaces (ongoing) - reducing the volume of ventilation air in all major buildings (ongoing) - recovery of waste heat from some North Canada Power Commission (N.C.P.C.) diesel generators (ongoing) - improving building insulation (cost effectiveness of this activity is being reviewed, as costs for removal of wall convering, extension of wall depth, and recovering are high).
COMMENTS:	The Department promotes the practice of considering future energy costs in the design decisions for new buildings. Use of design "rules of thumb" commonly used in the south are discouraged. Rather, design decisions must be made on the basis of life cycle costing practices.

The Department is preparing proposals for N.C.P.C. with a view to establishing a more equitable sharing of the benefits that accrue from heat reclamation projects.

PRINCIPAL CONTACT(S):

A.D. Squires, P.Eng.
Head, Buildings and Works
Operations Division
Department of Public Works
Government of the Northwest Territories
Yellowknife, NWT
X1A 2L9
(403) 873-7114

NWT - 03

PROGRAM TITLE:	Energy Conservation Awareness Program.
AGENCY RESPONSIBLE:	Department of Information, Government of the NWT.
GEOGRAPHICAL COVERAGE OF PROGRAM:	Northwest Territories.
PROGRAM OBJECTIVES:	To disseminate informaion and educate the public on the entire spectrum of conservation and renewable energy alternatives.
ELIGIBILITY:	The Program is directed at all residents of the NWT.
DESCRIPTION OF PROGRAM AND ASSISTANCE OFFERED:	TV and radio time was used in all six major NWT languages. Printed material was distributed as newspaper inserts and ads, posters, stickers, decals, buttons, school kits and envelope stuffers. As well, considerable "how to" materials from the south were employed. Implementation of the program involved the regional information officers and the community government liaison officers.
INVOLVEMENT OF OTHER GOVERNMENTS/AGENCIES:	Department of Public Works, Energy Conservation Division.
AUTHORIZED PROGRAM FUNDING LEVELS:	1983/84 budget is $30 000.
PROGRAM COMMENCED:	1980 PROGRAM ENDS: Indefinite.
CURRENT STATUS:	On-going.
PRINCIPAL CONTACT(S):	Ron Hawkins Chief, Energy Conservation Division Dept. of Public Works Government of the NWT Yellowknife, NWT X1A 2L9 (403) 873-7203

POOR

QUALITY

ORIGINAL